

CONSTRUCTION PRODUCT CATALOG FULL RANGE SOLUTIONS



BUILDING TRUST

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Epoxy Resin Mortars and Broadca	st Systems
Heavy Traffic	
Sikadur 21 Lo-Mod LV	C400
Sikadur 22 Lo-Mod	C410
Sikadur Epoxy Broadcast Overlay System	C420
Sikadur 22 Lo-Mod FS	C430
Sikadur 25 Lo-Mod	C440
Sikadur 23 Lo-Mod Gel	B270
Sikadur 35 Hi-Mod LV	C20
Sikadur 35 Hi-Mod LV LPL	C30
Sikadur 43 Patch-Pak	usa.sika.com
Light Traffic	
Sikagard 62	A450
Sikadur Balcony System	C450
Sikagard Duochem 7500	C460
Sikagard Duochem 7500 Thixo	C470
Sikagard WDE Primer	C480
Sikagard 616	C490
Sikagard 664	C500
Sikagard 600	C510
	2510
Control Joint Systems	
Sika Loadflex 524 EZ	B180
Sika Loaunex 524 EZ	B190
Sikadur 51 SL	B190 B200
SIKAUUI SI SE	BZUU
High Performance Joint Systems	
Sikadur 31 Hi-Mod Gel (1:1 Mix Ratio)	B240
Sikadur Combiflex SG System	B240 B260
Sikaddi combinex 50 System	D200
Flooring	
	A 4E 0
Sikagard 62	A450
Sikagard Duochem 7500	C450
Sikagard Duochem 7500 Thixo	C460
Sikagard WDE Primer	C470
Sikagard 616	C480
Sikagard 664	C490
Sikagard 600	C500
Anchoving	
Anchoring	653.0
Sika AnchorFix-1	C520
Sika AnchorFix-2	C530
Sika AnchorFix-2 Arctic	C540
Sika AnchorFix-500	C550
Sika AnchorFix-3001	C560
Grouting and Grout Aids	
Sikadur 42 Grout-Pak	D10
Sikadur 42 Grout-Pak Sikadur 42 Grout-Pak PT	D10 D20
Sikadur 42 Grout-Pak Fi	D20 D30

Sikadur 42 Grout-Pak PT	D20
Sikadur 42 Grout-Pak LE	D30
SikaGrout 212	D40
SikaGrout 328	D50
SikaGrout 428 FS	D60
Intraplast-N	usa.sika.com
SikaGrout Aid	usa.sika.com

E - Total Corrosion Management

D - (

Sika FerroGard 650, 670, 675	E10
Sika FerroGard 903	A340
Sika FerroGard 908	A350
Sika Ebonex	usa.sika.com

Contents by Application

F - Liquid Applied Roofing & Waterproofing

Sikalastic Protective Waterproofing

Sikalastic 320	F10

Sikalastic DeckPro Traffic Systems

1 Component	
Sikalastic 710/715/735 AL Traffic System	F20
Sikalastic 710 Lo-VOC/715 Lo-VOC/	F30
736 AL Lo-VOC Traffic System	
Sikalastic 710 NP Base	F40
Sikalastic 715 Lo-VOC/715 Lo-VOC Traffic System	F50
2 Component	
Sikalastic 720/745 AL Traffic System	F60
Sikalastic 720 SG Base	F70
Sikalastic 390/391/395 Traffic System	F80
Decorative	
Sikalastic 735 AL/736 AL Lo-VOC/748 PA	F90
Hybrid	
Sikalastic 22 Lo-Mod Hybrid Traffic System	F100
Primers	
Sikalastic FTP Primer	F110
Sikalastic FTP Lo-VOC Primer	F120
Sikalastic PF Lo-VOC Primer	F130
Sikalastic MT Primer	F140
Sikalastic Recoat Primer	F150
Sikalastic RoofPro	
Resins	
Sikalastic 601BC/621 TC	F160
Sikalastic 624 WP	F170
Sikalastic 641	F180
Sikalastic 641 Lo-Voc	F190
Sikalastic 600 Accelerator	F200
Sikalastic Clearglaze	F210
Reinforcements	
Sika Reemat Standard and Premium	F220
Sika Fleece 120, 140, 170	F230
Sika Flexitape Heavy	F240
Sika Joint Tape SA	F250
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Sika Joint Tape SA Primer	F260
Sika Concrete Primer	F270
Sikalastic DTE Primer	F280
Sikalastic EP Primer	F290
Sika Reactivation Primer	F300
Sika Bonding Primer	A430
Insulations and Cover Boards	
Sarnatherm ISO Insulation (20 psi)	usa.sil
Sarnatherm ISO Insulation (25 psi)	usa.sil
Sarnatherm Tapered ISO Insulation (20 psi)	usa.sil
Sarnatherm Tapered ISO Insulation (25 psi)	usa.sil

Sarnatherm XPS Insulation

Dens Deck Roof Board

Securock Cement Roof Board

Securock Gypsum Fiber Roof Board

Sarnacol OM Board Adhesive	usa.sika.com
Sarnafastener #12	usa.sika.com
Sarnafastener #14	usa.sika.com
Sarnafastener CD10	usa.sika.com
Sarnaplate	usa.sika.com
Vapor Barriers and Primers	
Sarnavap Self-Adhered Vapor/Air Barrier	usa.sika.com
Sarnavap Self-Adhered Primer	usa.sika.com
Sarnavap Self-Adhered Primer WB	usa.sika.com
Sarnavap Self-Adhered Primer VC	usa.sika.com
Accessories	
Sarnapaver	usa.sika.com
Sika Drainage Mats	usa.sika.com
Edge Grip Fascia	usa.sika.com
Edge Grip Extruded Fascia	usa.sika.com
Wall Grip Coping	usa.sika.com

Adhesives and Fasteners

G - Building Envelope

Wall Grip Coping Plus

Sikagard 530 Sikagard 535 SikaMembran 540 SikaMultiSeal Plus Sikagard 510 SikaMultiSeal 515	G10 G20 G30 G40 usa.sika.com usa.sika.com
SikaMultiSeal 515	usa.sika.com

usa.sika.com

H - Special Additives and Accessories

Rugasol-S SikaFilm SikaLatex SikaLatex R Sikament 100 SC	usa.sika.com usa.sika.com usa.sika.com usa.sika.com usa.sika.com
Sikament IUU SL	usa.sika.com

I - Tables and Warranty

Coverage Tables Tables & Estimating Data for Epoxy Mortars Conversions and Conversion Tables Sika Construction Products Warranty

ka.com ka.com ka.com ka.com usa.sika.com usa.sika.com usa.sika.com usa.sika.com

A - Concrete Repair and Protection Systems

Steel Reinforcement Primers		Protective Leveling Mortars/S	Surface Fillers
Sika Armatec 110 EpoCem	A10	Sikagard 75 EpoCem	usa.sika.com
		SikaTop Seal 107	A260
Bonding Agents		SikaQuick Smooth Finish	A150
Sika Armatec 110 EpoCem	A10		
Sikadur 32 Hi-Mod	A20	Self Leveling Mortars and Pri	mers
Sikadur 32 Hi-Mod LPL	A30	Sikafloor 81 Epocem	usa.sika.com
Sika Liquid Weld	A40	Sika Primer MB	A270
	////0	SikaLevel-01 Primer	A280
Repair Mortars		SikaLevel-02 EZ Primer	A290
Hand Applied		SikaLevel SkimCoat	A300
Sika MonoTop 615	usa.sika.com	SikaLevel RapidPatch	A310
SikaRepair 222	A50	SikaLevel-315	A320
SikaRepair 223	A50 A60	SikaLevel-125	A320
SikaRepair SHA	A70		0CCA
SikaRepair SHB	A70 A80	Drotoctive Improgrations and	Contings
	A90	Protective Impregnations and Sika FerroGard 903	A340
SikaTop 121 PLUS			
SikaTop 122 PLUS	A100	Sika FerroGard 908	A350
SikaTop 123 PLUS	A110	Sikagard 701W	A360
Quickset Mortars	A 1 7 0	Sikagard 740W	A370
SikaQuick 1000	A120	Sikagard 705L	A380
SikaQuick 2500	A130	Sikagard 706 Thixo	A390
SikaQuick VOH	A140	Sikagard 550W Elastocolor	A400
SikaQuick Smooth Finish	A150	Sikagard 550W CA Elastocolor	A410
Sikacrete 321 FS	A160	Sikagard 552W Primer	A420
SikaSet Mortar	usa.sika.com	Sika Bonding Primer	A430
SikaSet Plug	usa.sika.com	Sikagard 570	A440
Formed		Sikagard 62	A450
Sika MonoTop 611	usa.sika.com	Sikagard 670W	A460
Sikacrete 211	A170	Sikagard 670W Clear	A470
Sikacrete 211 SCC Plus	A180	Sikagard Elastic Base Coat	A480
SikaTop 111 PLUS	A190	Sikagard FlexCoat	A490
Sikaquick FNP	A200	Sikagard FlexCoat ATC	A500
Machine-Applied		SikaTop 144	A510
Sika MonoTop 615	usa.sika.com		
Sikacem 103	A210		
Sikacem 103F	A220		
Sikacem 133	A230		
SikaRepair 224	A240		
Sikacrete 213F	A250		

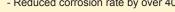


Sika[®] Armatec[®] 110 EpoCem

Bonding Agent and Reinforcement Protection

Description	Sika® Armatec® 110 EpoCem is a 3-component, solvent-free, moisture-tolerant, epoxy-modified, cementitious product specifically formulated as a bonding agent and anti-corrosion coating.
Where to Use	 As an anti-corrosion coating for reinforcing steel in concrete restoration. As added protection to reinforcing steel in areas of thin concrete cover. As a bonding agent for repairs to concrete and steel. As a bonding agent for placing fresh, plastic concrete to existing hardened concrete.
Advantages	 Excellent adhesion to concrete and steel. Acts as an effective barrier against penetration of water and chlorides. Long open time - up to 16 hours. Not a vapor barrier. Can be used exterior on-grade. Contains corrosion inhibitors. Excellent bonding bridge for cement or epoxy based repair mortars. High strength, unaffected by moisture when cured. Spray, brush or roller application. Non-flammable, solvent free.
Coverage	 Bonding agent: minimum (theoretical) on smooth, even substrate 80 ft.²/gal. (=20 mils thickness). Coverage will vary depending on substrate profile and porosity. Reinforcement Protection: 40 ft.²/gal. (=20 mils thickness) (2 coat application).
Packaging	3.5 gal. unit. (47.6 fl. oz. Comp. A + 122.1 fl. oz. Comp. B + 46.82 lb. Comp. C) Comp. A + B in carton, Comp. C in multi-wall bag. 1.65 gal. unit. (22.7 fl. oz. A + 57.6 fl. oz. B + 4 bags @ 5.5 lb.) Factory-proportioned units in a pail.
	 RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Shelf Life 1 year in original, unopened packaging. Storage Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F (18°-24°C) before using. If components A and B are frozen, discard. Protect Component C from humidity. Color Concrete gray Density (Mixed) 125 lb./ft.³ (2.0 kg.) Pot Life Approximately 90 minutes Compressive Strength (ASTM C-109) 3 days 4500 psi (31.0 MPa) 7 days 6500 psi (44.8 MPa) 28 days 8500 psi (58.6 MPa) Flexural Strength (ASTM C-348) 28 days 1250 psi (8.6 MPa) Splitting Tensile Strength (ASTM C-496) 28 days 600 psi (4.1 MPa) Important Data for Sika Armatec 110 as a Corrosion Protective Coating Water Water Permeability at 10 bar (145 psi) 8.92 x 10⁻¹⁵ ft./sec. Control 7.32 x 10⁻¹⁰ ft./sec. Water vapor diffusion coefficient µ H₂O 110 Carbon Dioxide Carbon dioxide diffusion coefficient µ CO₂ 14000
	TEST DATA: Time-to-Corrosion Study - Sika® Armatec® 110 more than tripled the time to corrosion Peduad correction proto by over 40%

- Reduced corrosion rate by over 40%





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	Wet on Wet2000 psi(19.5 MPa)24 hr. Open Time2600 psi(17.9 MPa)Bond of Steel Reinforcement to Concrete (Pullout Test): Sika® Armatec® 110 Coated625 psi(4.3 MPa)Epoxy Coated508 psi(3.5 MPa)Plain Reinforcement573 psi(3.95 MPa)
How to Use Surface Preparation	Cementitious substrates: Should be cleaned and prepared to achieve a laitance and contaminant-free sur prepared in accordance with the requirements specified by the overlay or repair material by blast cleanin equivalent mechanical means. Substrate must be saturated surface dry (SSD) with no standing water. Steel: Should be cleaned and prepared thoroughly by blast cleaning.
Mixing	Shake contents of both Component 'A' and Component 'B'. Empty entire contents of both Component 'A' Component 'B' into a clean, dry mixing pail. Mix thoroughly for 30 seconds with a Sika paddle on a low sp (400-600 rpm) drill. Slowly add the entire contents of Component 'C' while continuing to mix for 3 minutes blend is uniform and free of lumps. Mix only that quantity that can be applied within its pot life.
Application	As a bonding agent - Apply by stiff-bristle brush or broom. Spray apply with Goldblatt Pattern Pistol or e equipment. For best results, work the bonding slurry well into the substrate to ensure complete coverage of surface irregularities. Apply the freshly mixed patching mortar or concrete wet on wet, or up to the maxim recommended open time, onto the bonding slurry. Maximum recommended open time between application of Armatec [®] 110 and patching mortar or concret 80°-95°F (26°-35°C) 6 hours 65°-79°F (18°-26°C) 12 hours 50°-64°F (10°-17°C) 16 hours 40°-49°F (4°-9°C) wet-on-wet For corrosion protection only - Apply by stiff-bristle brush or spray at 80 ft.²/gal. (20 mils). Take special to properly coat the underside of the totally exposed steel. Allow coating to dry 2-3 hours at 73°F, then a a second coat at the same coverage. Allow to dry again before the repair mortar or concrete is applied. For place repair within 7 days.
Limitations	 Substrate and ambient temperature: Minimum 40°F (5°C). Maximum 95°F (35°C). Minimum thickness: As a bonding agent 20 mils. For reinforcement protection 40 mils. (2 coats, 20 mils each). Not recommended for use with expansive grouts. Use of semi-dry mortars onto Sika® Armatec® 110 EpoCem must be applied "wet on wet". When used in overhead applications with hand placed patching mortars, use "wet on wet" for maxir mortar built thickness. Substrate profile as specified by the overlay or repair material is still required. As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. an appropriate epoxy such as Sikadur® Hi-Mod 32.
KEEF For actu befo Data men for e proc SIK/ the e Buy EXP	 Substrate profile as specified by the overlay or repair material is still required. As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts et an appropriate epoxy such as Sikadur® Hi-Mod 32. RIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNING: STRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY HEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE READ AND FOLLOW THE WARNING: AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE USER OF THE OBLIG OR EAAD AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE ENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE. PC CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL UX further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refe as Sheet, product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887. r to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current to a Sheet, product label and Safety Data Sheet prior to to the Available online at http://usa.sika.com/ or by calling Sika's Technical Safety Data Sheet prior to to the Available and Safety Data Sheet prior to to the Available as the cortent Product Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Safety Data Sheet prior to to the Available and Safety Data Sheet prior to to the Available and Safety Data Sheet prior to the Available and Safety Data Sheet prior to tother the Safety Pote Sofe A PARTICULAR PUROMS AND AVY WARRAN
SHA THE SAL CAL Visi	ALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTH E OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OC LING 201-933-8800. It our website at usa.sika.com gional Information and Sales Centers. For the location of your nearest Sika sales office, contact your regional center. Sika Corporation 201 Polito Avenue Lyndhurst, NJ 07071 Phone: 800-933-7452 Fax: 201-933-6225 Fax: 201-933-6225 Fax: 514-694-2792 EXEMPTION FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE ON ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTH Sika Mexicana S.A. de C.V. Carretera Libre Celaya Km. 8.5 Fracc. Industrial Balvanera Corregidora, Queretaro C.P. 76920 Phone: 52 442 2385800 Sika and Armatec are registered

Important Data for Sika® Armatec® 110 as a Bonding Agent

2800 psi

14 days moist cure, plastic concrete to hardened concrete:

(19.3 MPa)

Bond Strength (ASTM C882)

Wet on Wet

Sikadur[®] 32, Hi-Mod

High-modulus, high-strength, epoxy bonding/grouting adhesive

Description	Sikadur [®] 32, Hi-Mod, is a multi-purpose, 2-component, 100% solids, moisture-tolerant structural epoxy adhesive. It conforms to the current ASTM C-881, Types I, II, and V, Grade-2, Class C and AASHTO M-235 specifications.
Where to Use	 Bond fresh, plastic concrete to hardened concrete and steel. Grout horizontal cracks in structural concrete and wood by gravity feed. Machinery and 'robotic' base-plate grout. Structural adhesive for concrete, masonry, metal, wood, etc.
Advantages	 High-strength bonding/grouting adhesive. Tolerant to moisture before, during and after cure. Excellent adhesion to most structural materials. Convenient easy-to-mix ratio A:B = 1:1 by volume. Easy-to-use for bonding/grouting applications. Fast initial set; rapid gain to ultimate strengths. USDA-certified for use in food plants.
Coverage	 Bonding Adhesive - 1 gal. covers approximately 80 ft.² on smooth surface. Base Plate Grout - 1 gal. mixed with 1.5 parts oven-dried aggregate by loose volume yields approximately 420 cu. in. of grout. Anchoring grout - 1 gal. yields 231 cu. in. of grout.
Packaging	1, 2 and 4 gal. units.
	Typical Data (Material and curing conditions @ 73°F {23°C} and 50% R.H.)RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.Shelf Life2 years in original, unopened containers.Storage ConditionsStore dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F (18°-24°C)
	before using.
	Color Concrete gray
	Mixing RatioComponent 'A': Component 'B' = 1:1 by volume.ViscosityApproximately 3,000 cps.
	Pot Life Approximately 30 minutes. (60 gram mass). Approximately 22 minutes. (350 gram mass, 8 oz.)
	Contact Time 40°F (4°C)*: 12 hrs. 73°F (23°C)*: 3-4.5 hrs. 90°F (32°C)*: 1.5-2 hrs
	Compressive Modulus, psi 7 day 2.1 X 10 ⁵ psi (1,449 MPa)
	Tensile Properties (ASTM D-638)7 dayTensile Strength6,900 psi (48 MPa)Elongation at Break1.9%14 dayModulus of Elasticity5.4 X 105 psi (3,726 MPa)
	Flexural Properties (ASTM D-790)14 dayFlexural Strength (Modulus of Rupture)7,000 psi (48.3 MPa)Tangent Modulus of Elasticity in Bending6.9 X 10 ⁵ psi (4,800 MPa)
	Shear Strength (ASTM D-732) 14 day Shear Strength 6,200 psi (43 MPa)
	Water Absorption (ASTM D-570)7 day (24 hour immersion)0.21%
	Heat Deflection Temperature (ASTM D-648)7 day[fiber stress loading 264 psi (1.8 MPa)]122°F (50°C)
	Bond Strength (ASTM C-882): 2 day (moist cure) Plastic Concrete to Hardened Concrete 1,700 psi (11.7 MPa) Hardened Concrete to Hardened Concrete Hardened Concrete to Hardened Concrete 2,000 psi (13.8 MPa) Hardened Concrete to Steel 1,900 psi (13.1 MPa)
	14 day (moist cure)Plastic Concrete to Hardened Concrete2,200 psi (15.1 MPa)Plastic Concrete to Steel2,000 psi (13.8 MPa)Hardened Concrete to Hardened Concrete2,000 psi (13.8 MPa)



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	Compressive Strength, psi 8 hour 16 hour 1 day 3 day 7 day 14 day 28 day *Material cured and tested at the temp	40°F* (4°C) - - - - - - - - - - - - - - - - - - -	73°F* (23°C) 140 (1.0) 4,800 (33.1) 5,700 (39.3) 11,300 (77.9) 11,800 (81.4) 12,200 (84.1) 12,200 (84.1)	90°F* (32°C) 1,700 (11.7) 7,300 (50.3) 7,300 (50.3) 10,400(71.7) 10,400(71.7) 10,400(71.7) 10,500(72.4)
	Material Cured and tested at the temp			
How to Use Surface Preparation	Surface must be clean and sou grease, curing compounds, imp			
	Preparation Work: Concrete - open textured surface by blasto Steel - Should be cleaned and	cleaning or other equivation	alent mechanical means	S.
Mixing	Pre-mix each component. Propail. Mix thoroughly for 3 minut color. Mix only that quantity that	es with Sika paddle or	n low-speed (400-600 rp	
Application	To bond fresh concrete to have			
	while Sikadur [®] 32, Hi-Mod, is s contaminants then recoat with a To grout baseplates - Add up by volume. Place grout under b 10 mm) space should remain b Maximum thickness of grout pe to touch before applying addition neat Sikadur [®] 32 Hi-Mod. Pour the underside of the bearing pla To gravity feed cracks - Pour m Seal underside of slab prior to the	till tacky. If coating bec additional Sikadur® 32 to 1 1/2 parts of oven-o paseplate. Avoid conta etween the top of the g r lift is 1.5 in. (38 mm) I mal layer. The remainin a sufficient quantity of ate. eat material into vee-no	tomes glossy and loses Hi-Mod, and proceed. dried aggregate to 1 particle ct with the underside of grout and the bottom of the firmultiple lifts are needed ing 1/4 to 3/8 in. (6 to 10 in neat epoxy to allow the botched crack. Continue p	t of mixed Sikadur [®] 32, Hi-I the plate. A 1/4 to 3/8 in. the plate. ed, allow preceding layer to mm) space should be filled level to rise slightly higher

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KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY.

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.

C.P. 76920

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Phone: 52 442 2385800 Fax: 52 442 2250537

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Sikadur[®] 32, Hi-Mod LPL

High-modulus, high-strength, extended pot life, epoxy bonding/grouting adhesive

Description		
	adhesive. Sikadur® 32,	L is a multi-purpose, 2-component, 100% solids, moisture-tolerant, structural epo Hi-Mod LPL offers a long pot life and contact time even at 100°F (38°C). Sikadu to the current ASTM C-881, Types I and II, Grade-2, Class-C and AASHTO M-23
Where to Use		placements requiring a bonding adhesive.
		ncrete to hardened concrete and steel. <s and="" by="" concrete="" feed.<="" gravity="" in="" structural="" th="" wood=""></s>
	 Machinery and basep 	
Advantages		or concrete, masonry, metal, wood, etc.
Auvantages	 High-strength bonding 	
		efore, during, and after cure.
		most structural materials. nix ratio A:B = 1:1 by volume.
		ng/grouting applications.
Coverage		gal. covers approximately 80 ft. ² on smooth surface. al. mixed with 1 1/2 parts oven-dried aggregate by loose volume yields approximate
Packaging	1 and 4 gal. units.	
	Typical Data (Mate	erial and curing conditions @ 73°F (23°C) and 50% R.H.)
		SED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, FION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.
	Shelf Life Storage Conditions	2 years in original, unopened containers. Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F (18°-24°C) before
	Storage conditions	
		using.
	Color	using. Dark gray.
	Color Mixing Ratio	-
		Dark gray.
	Mixing Ratio	Dark gray. Component 'A' : Component 'B' = 1:1 by volume.
	Mixing Ratio Viscosity (Mixed) Pot Life Contact Time: Su	Dark gray.Component 'A' : Component 'B' = 1:1 by volume.Approximately 2,800 cps.Approximately 90 minutes @ 73°F (23°C). (8 fl. oz. volume)Approximately 60 minutes @ 100°F (38°C). (8 fl. oz. volume)Jbstrate Temperature40°F (4°C) 73°F (23°C) 90°F (32°C)
	Mixing Ratio Viscosity (Mixed) Pot Life Contact Time: St	Dark gray.Component 'A' : Component 'B' = 1:1 by volume.Approximately 2,800 cps.Approximately 90 minutes @ 73° F (23° C). (8 fl. oz. volume)Approximately 60 minutes @ 100° F (38° C). (8 fl. oz. volume)ubstrate Temperature 40° F (4° C) 73° F (23° C)aterial Temperature 73^{\circ}F (23° C) $10-14$ hr.6-7 hr. $2-2.5$ hr.
	Mixing Ratio Viscosity (Mixed) Pot Life Contact Time: Su Ma Ma	Dark gray.Component 'A' : Component 'B' = 1:1 by volume.Approximately 2,800 cps.Approximately 90 minutes @ $73^{\circ}F(23^{\circ}C)$. (8 fl. oz. volume)Approximately 60 minutes @ $100^{\circ}F(38^{\circ}C)$. (8 fl. oz. volume)Ubstrate Temperature $40^{\circ}F(4^{\circ}C)$ $73^{\circ}F(23^{\circ}C)$ $90^{\circ}F(32^{\circ}C)$ aterial Temperature 73^{\circ}F(23^{\circ}C) $10-14$ hr. $6-7$ hr. $2-2.5$ hr.aterial Temperature 100^{\circ}F(38^{\circ}C) $6-8$ hr. $5-6$ hr. $1.5-2$ hr.
	Mixing Ratio Viscosity (Mixed) Pot Life Contact Time: St	Dark gray.Component 'A' : Component 'B' = 1:1 by volume.Approximately 2,800 cps.Approximately 90 minutes @ $73^{\circ}F(23^{\circ}C)$. (8 fl. oz. volume)Approximately 60 minutes @ $100^{\circ}F(38^{\circ}C)$. (8 fl. oz. volume)ubstrate Temperature $40^{\circ}F(4^{\circ}C)$ $73^{\circ}F(23^{\circ}C)$ $90^{\circ}F(32^{\circ}C)$ aterial Temperature 73^{\circ}F(23^{\circ}C) $10-14$ hr. $6-7$ hr. $2-2.5$ hr.aterial Temperature 100^{\circ}F(38^{\circ}C) $6-8$ hr. $5-6$ hr. $1.5-2$ hr.
	Mixing Ratio Viscosity (Mixed) Pot Life Contact Time: Su Ma Tensile Properties (A Flexural Properties (A	Dark gray.Component 'A' : Component 'B' = 1:1 by volume.Approximately 2,800 cps.Approximately 90 minutes @ $73^{\circ}F(23^{\circ}C)$. (8 fl. oz. volume)Approximately 60 minutes @ $100^{\circ}F(38^{\circ}C)$. (8 fl. oz. volume)Jubstrate Temperature $40^{\circ}F(4^{\circ}C)$ $73^{\circ}F(23^{\circ}C)$ $90^{\circ}F(32^{\circ}C)$ aterial Temperature 73^{\circ}F(23^{\circ}C) 10^{-14} hr. 6^{-7} hr. $2^{-2.5}$ hr.aterial Temperature 100°F (38°C) 6^{-8} hr. 5^{-6} hr. 1.5^{-2} hr.ASTM D-638) 14 dayTensile StrengthElongation at Break 5° Modulus of Elasticity 4.9×10^{5} psi (3,381 MPa)ASTM D-790) 4.9×10^{5} psi (3,381 MPa)
	Mixing Ratio Viscosity (Mixed) Pot Life Contact Time: Su Ma Tensile Properties (A Flexural Properties (A 14 day Flexur	Dark gray. Component 'A' : Component 'B' = 1:1 by volume.Approximately 2,800 cps.Approximately 90 minutes @ $73^{\circ}F(23^{\circ}C)$. (8 fl. oz. volume) Approximately 60 minutes @ $100^{\circ}F(38^{\circ}C)$. (8 fl. oz. volume)Jubstrate Temperature $40^{\circ}F(4^{\circ}C)$ $73^{\circ}F(23^{\circ}C)$ $73^{\circ}F(23^{\circ}C)$ Jubstrate Temperature 73^{\circ}F (23^{\circ}C) 10^{-14} hr. 6^{-7} hr. $2^{-2.5}$ hr.aterial Temperature 100°F (38°C) 6^{-8} hr. 5^{-6} hr. 1.5^{-2} hr.ASTM D-638) 14 dayTensile StrengthElongation at Break 5° Modulus of Elasticity 4.9×10^{5} psi (3,381 MPa)ASTM D-790) ral Strength (Modulus of Rupture) $9,100$ psi (62.8 MPa)
	Mixing Ratio Viscosity (Mixed) Pot Life Contact Time: Su Ma Tensile Properties (A Flexural Properties (A 14 day Flexur Tange	Dark gray. Component 'A' : Component 'B' = 1:1 by volume. Approximately 2,800 cps. Approximately 90 minutes @ 73°F (23°C). (8 fl. oz. volume) Approximately 60 minutes @ 100°F (38°C). (8 fl. oz. volume) Jbstrate Temperature 40°F (4°C) 73°F (23°C) 90°F (32°C) aterial Temperature 73°F (23°C) 10-14 hr. 6-7 hr. 2-2.5 hr. aterial Temperature 100°F (38°C) 6-8 hr. 5-6 hr. 1.5-2 hr. ISTM D-638) 14 day Tensile Strength 5,800 psi (40.0 MPa) Elongation at Break 5 % Modulus of Elasticity 4.9 x 10 ⁵ psi (3,381 MPa) ASTM D-790) al Strength (Modulus of Rupture) 9,100 psi (62.8 MPa) 9,100 psi (5,037 MPa)
	Mixing Ratio Viscosity (Mixed) Pot Life Contact Time: Su Ma Tensile Properties (A Flexural Properties (A 14 day Flexur Tange Shear Strength (AST	Dark gray. Component 'A' : Component 'B' = 1:1 by volume. Approximately 2,800 cps. Approximately 90 minutes @ 73°F (23°C). (8 fl. oz. volume) Approximately 60 minutes @ 100°F (38°C). (8 fl. oz. volume) ubstrate Temperature 40°F (4°C) 73°F (23°C) 90°F (32°C) aterial Temperature 73°F (23°C) 10-14 hr. 6-7 hr. 2-2.5 hr. aterial Temperature 100°F (38°C) 6-8 hr. 5-6 hr. 1.5-2 hr. STM D-638) 14 day Tensile Strength 5,800 psi (40.0 MPa) Elongation at Break 5 % Modulus of Elasticity 4.9 x 10 ⁵ psi (3,381 MPa) ASTM D-790) 9,100 psi (62.8 MPa) nt Modulus of Elasticity in Bending 7.3 X 10 ⁵ psi (5,037 MPa) M D-732) 14 day Shear Strength 6,400 psi (44.1 MPa)
	Mixing Ratio Viscosity (Mixed) Pot Life Contact Time: Su Ma Tensile Properties (A Flexural Properties (A 14 day Flexur Tange Shear Strength (AST Water Absorption (AST	Dark gray. Component 'A' : Component 'B' = 1:1 by volume.Approximately 2,800 cps.Approximately 90 minutes @ 73°F (23°C). (8 fl. oz. volume) Approximately 60 minutes @ 100°F (38°C). (8 fl. oz. volume)Jubstrate Temperature $40°F (4°C)$ $40°F (4°C)$ $73°F (23°C)$ aterial Temperature 100°F (38°C) $10-14$ hr. $6-7$ hr. $2-2.5$ hr.aterial Temperature 100°F (38°C) $6-8$ hr. $5-6$ hr. $1.5-2$ hr.ASTM D-638) 14 dayTensile StrengthElongation at Break 5% Modulus of Elasticity 4.9×10^5 psi (3,381 MPa)ASTM D-790) ral Strength (Modulus of Rupture) $9,100$ psi (62.8 MPa) $7.3 X 10^5$ psi (5,037 MPa)M D-732)14 dayStm D-570) 7 day(4 hours)0.15%
	Mixing Ratio Viscosity (Mixed) Pot Life Contact Time: Su Ma Tensile Properties (A Flexural Properties (A 14 day Flexur Tange Shear Strength (AST	Dark gray. Component 'A' : Component 'B' = 1:1 by volume. Approximately 2,800 cps.Approximately 90 minutes @ 73°F (23°C). (8 fl. oz. volume) Approximately 60 minutes @ 100°F (38°C). (8 fl. oz. volume)Jubstrate Temperature $40°F (4°C)$ $40°F (4°C)$ $73°F (23°C)$ Jubstrate Temperature T3°F (23°C) $10-14$ hr. $6-7$ hr. $2-2.5$ hr.aterial Temperature 100°F (38°C) $6-8$ hr. $5-6$ hr. $1.5-2$ hr.ASTM D-638) 14 dayTensile Strength $5,800$ psi (40.0 MPa)Elongation at Break $5 %$ Modulus of Elasticity 4.9×10^5 psi (3,381 MPa)ASTM D-790) $9,100$ psi (62.8 MPa)ral Strength (Modulus of Rupture) $9,100$ psi (62.8 MPa)nt Modulus of Elasticity in Bending 7.3×10^5 psi ($5,037$ MPa)M D-732)14 dayShear StrengthSTM D-570) 7 day(4 hours) 0.15% ure (ASTM D-648)14 day $108°F (42°C)$
	Mixing Ratio Viscosity (Mixed) Pot Life Contact Time: Su Ma Tensile Properties (A Flexural Properties (A 14 day Flexur Tange Shear Strength (AST Water Absorption (AS Deflection Temperatu	Dark gray. Component 'A' : Component 'B' = 1:1 by volume. Approximately 2,800 cps. Approximately 90 minutes @ 73°F (23°C). (8 fl. oz. volume) Approximately 60 minutes @ 100°F (38°C). (8 fl. oz. volume) Jubstrate Temperature $40°F (4°C) 73°F (23°C) 90°F (32°C)$ aterial Temperature 73°F (23°C) 10-14 hr. 6-7 hr. 2-2.5 hr. aterial Temperature 100°F (38°C) 6-8 hr. 5-6 hr. 1.5-2 hr. ISTM D-638) 14 day Tensile Strength 5,800 psi (40.0 MPa) Elongation at Break 5 % Modulus of Elasticity 4.9 x 10 ⁵ psi (3,381 MPa) ASTM D-790) ral Strength (Modulus of Rupture) 9,100 psi (62.8 MPa) nt Modulus of Elasticity in Bending 7.3 X 10 ⁵ psi (5,037 MPa) M D-732) 14 day Shear Strength 6,400 psi (44.1 MPa) STM D-570) 7 day (4 hours) 0.15% ure (ASTM D-648) 14 day 108°F (42°C) (fiber stress loading = 264 psi {1.8 MPa})
	Mixing Ratio Viscosity (Mixed) Pot Life Contact Time: Su Ma Tensile Properties (A Flexural Properties (A 14 day Flexur Tange Shear Strength (ASTI Water Absorption (AS Deflection Temperatu	Dark gray. Component 'A' : Component 'B' = 1:1 by volume. Approximately 2,800 cps. Approximately 90 minutes @ 73°F (23°C). (8 fl. oz. volume) Approximately 60 minutes @ 100°F (38°C). (8 fl. oz. volume) Jubstrate Temperature 40°F (4°C) 73°F (23°C) 90°F (32°C) aterial Temperature 73°F (23°C) 10-14 hr. 6-7 hr. 2-2.5 hr. aterial Temperature 100°F (38°C) 6-8 hr. 5-6 hr. 1.5-2 hr. ASTM D-638) 14 day Tensile Strength 5,800 psi (40.0 MPa) Elongation at Break 5 % Modulus of Elasticity 4.9 x 10 ⁵ psi (3,381 MPa) ASTM D-790) ral Strength (Modulus of Rupture) 9,100 psi (62.8 MPa) nt Modulus of Elasticity in Bending 7.3 X 10 ⁵ psi (5,037 MPa) M D-732) 14 day Shear Strength 6,400 psi (44.1 MPa) STM D-570) 7 day (4 hours) 0.15% ure (ASTM D-648) 14 day 108°F (42°C) (fiber stress loading = 264 psi {1.8 MPa}) M C-882) re) Plastic concrete to hardened concrete 2,200 psi (15.2 MPa)
	Mixing Ratio Viscosity (Mixed) Pot Life Contact Time: Su Ma Tensile Properties (A Flexural Properties (A 14 day Flexur Tange Shear Strength (ASTI Water Absorption (AS Deflection Temperatu	Dark gray. Component 'A' : Component 'B' = 1:1 by volume. Approximately 2,800 cps. Approximately 90 minutes @ 73°F (23°C). (8 fl. oz. volume) Approximately 60 minutes @ 100°F (38°C). (8 fl. oz. volume) Jubstrate Temperature 40°F (4°C) 73°F (23°C) 90°F (32°C) aterial Temperature 73°F (23°C) 10-14 hr. 6-7 hr. 2-2.5 hr. aterial Temperature 100°F (38°C) 6-8 hr. 5-6 hr. 1.5-2 hr. ASTM D-638) 14 day Tensile Strength 5,800 psi (40.0 MPa) Elongation at Break 5 % Modulus of Elasticity 4.9 x 10 ⁵ psi (3,381 MPa) ASTM D-790) ral Strength (Modulus of Rupture) 9,100 psi (62.8 MPa) nt Modulus of Elasticity in Bending 7.3 X 10 ⁵ psi (5,037 MPa) M D-732) 14 day Shear Strength 6,400 psi (44.1 MPa) STM D-570) 7 day (4 hours) 0.15% ure (ASTM D-648) 14 day 108°F (42°C) (fiber stress loading = 264 psi {1.8 MPa}) M C-882) re) Plastic concrete to hardened concrete 2,200 psi (15.2 MPa)



	Compressive Properties (ASTM D- Compressive Strength, psi (MPa) 1 day	40°F* (4°C)*	73°F* (23°C)* -
	3 day 7 day 14 day	- 2,500 (17.2) 8,300 (57.2)	10,700 (73.8) 11,000 (75.9) 12,000 (82.3)
	28 day Compressive Modulus	10,000 (68.9) 28 day 2.6 x 1	13,000 (89.7)́ 0⁵ psi (1,794 MPa)
	* Material cured and tested at the temperatures in	•	0° psi (1,794 MFa)
How to Use Surface Preparation	grease, curing compounds, impregnation Preparation Work: Concrete - Should open textured surface by blast cleaning	ons, waxes and any othe be cleaned and prepare or equivalent mechanic	d to achieve a laitance and contaminant fre
Mixing	Pre-mix each component. Proportion equal parts by volume of Component 'A' and Component 'B' into clear pail. Mix thoroughly for 3 minutes with Sika paddle on low-speed (400-600 rpm) drill until blend is a uniform color. Mix only that quantity that can be applied within its pot life.		
Application	while Sikadur [®] 32, Hi-Mod LPL is still tac contaminants then recoat with additiona To grout base plates - Add 1 1/2 parts by volume. Place grout under baseplate mm) space should remain between the grout per lift is 1.5 in. (38 mm) If multiple additional layer. The remaining 1/4 to 3 LPL. Pour a sufficient quantity of neat e bearing plate.	ky. If coating becomes gl al Sikadur [®] 32, Hi-Mod L s of oven-dried aggregat e. Avoid contact with the top of the grout and th lifts are needed, allow p /8-in. (6-10 mm) space s poxy to allow the level to erial into vee-notched cra	h, roller, broom, or spray. Place fresh concre ossy and loses tackiness, remove any surfa PL and proceed. e to 1 part of mixed Sikadur® 32, Hi-Mod L underside of the plate. A 1/4- to 3/8-in. (6- e bottom of the plate. Maximum thickness receding layer to cool to touch before applyi should be filled with neat Sikadur® 32, Hi-M o rise slightly higher than the underside of t
Limitations	 Minimum substrate and ambient ten For spray applications, consult Tech Use only oven-dry aggregate. Material is a vapor barrier after cure For applications on exterior, on-grac Not an aesthetic product. Color may 	nical Service.	
INS SH PA TO	STRUCTIONS ON THE PRODUCT'S MOST C IEET WHICH ARE AVAILABLE ONLINE AT H RTMENT AT 800.933.7452 NOTHING CONTAI	URRENT PRODUCT DATA ITP://USA.SIKA.COM/ OR NED IN ANY SIKA MATERI INSTRUCTIONS FOR EAC	AYS READ AND FOLLOW THE WARNINGS AN A SHEET, PRODUCT LABEL AND SAFETY DA BY CALLING SIKA'S TECHNICAL SERVICE D ALS RELIEVES THE USER OF THE OBLIGATIO CH SIKA PRODUCT AS SET FORTH IN THE CL IFET PRIOR TO PRODUCT USE.
KEEF For	CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILI further information and advice regarding transporta	DREN. NOT FOR INTERNAL CONSUM ation, handling, storage and d	PTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE OF
befo Prio Data men for e	re using the product. In case of emergency, call CH r to each use of any Sika product, the user must alwa I Sheet, product label and Safety Data Sheet which a t at 800-933-7452. Nothing contained in any Sika mat ach Sika product as set forth in the current Product	EMTREC at 1-800-424-9300, Im ys read and follow the warning re available online at http://usa erials relieves the user of the o	s and instructions on the product's most current Prod .sika.com/ or by calling Sika's Technical Service Dep bligation to read and follow the warnings and instruct
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Sika Mexicana S.A. de C.V. Carretera Libre Celaya Km. 8.5





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Product Data Sheet Edition 2.3.2016 Sika[°] Liquid Weld

Sika[°] Liquid Weld

Concrete and Plaster Bonding Agent

Tensile Bond Strength (ACI 503R):

Shear Bond Strength (ASTM C881):

Freeze-Thaw Stability:

Description	Superior, reemulsifiable, liquid bonding agent for concrete, cement mortars and stucco.		
Where to Use	 Bond new concrete to new or old con Interior or Exterior use Vertical or Horizontal Use on concrete, concrete block, cem stone 	ncrete nent board, hardiboard, plywood, brick, plaster, tile, gypsum, or	
Advantages	 Reemulsifiable or rewettable Extended open time Increased bond strength High build bonding agent Improved repair durability 		
Coverage	Unit yields approx. 150 - 300 sq.ft. per g	allon depending upon actual porosity of the prepared substrate.	
Packaging	1 x 2 gallon can; box		
How to Use Mixing	Prior to installation, stir SikaQuick Liquic	d Weld before use for consistent dispersion. Apply Undiluted.	
Surface Preparation	Remove all deteriorated concrete, dirt, oil, grease, and all bond-inhibiting materials from surface. Preparation work should be done by high pressure water blast, scabbler, or other appropriate mechanical means to obtain an aggregate-fractured surface with a minimum CSP 3 surface profile or greater. Ensure there are no curing compounds or other contaminants remaining on the substrate before application. Substrate must be dry before application.		
Application	Be sure repair is not less than 1/2 inch in depth. Apply Liquid Weld uniformly over the substrate using a stiff brush, broom, roller or spray to form a continuous film. Reapply Liquid Weld that are not covered entirely. Allow film to dry for approximately 1 hour prior to application of mortars, concrete or stucco. Dry time can be affected by temperature and humidity, check to make sure product is dry to the touch before topping. Extremely porous substrates may require 2 coats of Liquid Weld. Protect newly applied Liquid Weld from dust, dirt, debris and moisture.		
	Typical Data (Material and curing cor		
	RESULTS MAY DIFFER BASED UPON STATISTICAL METHODS, TEST METHODS, ACTUAL SITE CONDI	L VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION ITIONS AND CURING CONDITIONS.	
	Shelf Life:	1 year in original, unopened containers	
	Storage Conditions:	Store in cool, frost-free conditions with temperatures between 50°F	
	Product Conditioning:	to 90°F (10°C to 32°C).	
	Drying Time:	Condition product to between 50°F to 90°F (10°C to 32°C).	
	Colors:	1 Hour	
		Light Blue	
	Viscosity:	1000 cps	

PRIOR TO EAC INSTRUCTIONS WHICH ARE AT AND FOLLOW DATA SHEET, F

PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800-933-7452. NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTION FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

800 psi (7 days)

150 psi (7 days) - substrate failure (5,000 psi concrete)

5 cycles freeze (-10 deg F and thaw). Freeze-thaw stable.

Limitations

- Not for use in wet environments, including exterior horizontal substrates, in or around swimming pools, showers, decks, below grade or retaining walls that may be subject to hydrostatic pressures, side walks, or parking ramps.
- Do not dilute
- Do not apply onto water soluble substrates
 - Do not apply on frozen or frost covered substrates.
- Low temperatures or high humidity will extend curing time.
- Do not allow stored product to freeze

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Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet. product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

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RESPONSIBLE CARE



Product Data Sheet Edition 8.15.2014 SikaRepair® 222

SikaRepair[®] 222

One-component, early strength gaining, cementitious patching material

Description	SikaRepair [®] 222 is a one-component, early strength gaining, cementitious, patching material for horizontal repair of concrete.
Where to Use	 On grade, above and below grade on concrete and mortar. As a repair material for spalled horizontal concrete surfaces, walkways, ramps, steps, etc.
Advantages	 Easy-to-use; just add water. Not a vapor barrier. Suitable for exterior and interior applications. Not flammable. Easily applied to clean, sound substrate. High early strengths.
Coverage	Approximately 0.42 cu. ft. Approximately 0.62 cu. ft. (222+32 lbs. of 3/8" pea gravel).
Packaging	50 lb. multi-wall bag. SikaLatex R - 1 gal. plastic jug; 4/carton, 5 gal. pails

Typical Data (*Material and curing conditions* @ 73°F (23°C) and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf life	One year in original, unopened bags.
Storage Conditions	Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using.
Color	Concrete gray
Mixing Ratio	gallon to gallon of liquid per 50 lb. bag
Application Time	Approximately 30 minutes
Finishing Time	50-120 minutes
AL 4 AU 11 1 1 1 1	

Note: All times start after adding Component 'B' to Component 'A' and are highly affected by temperature, relative humidity, substrate temperature, wind, sun, and other jobsite conditions.

Compressive Strength (A	With undiluted Latex R	
1 day	>2,000 psi (12.4 MPa)	2,300 psi (15.9 MPa)
7 days	4,000 psi (27.6 MPa)	4,500 psi (31.0 MPa)
28 days	5,000 psi (34.5 MPa)	5,500 psi
Flexural Strength (ASTM		
28 days	750 psi (5.2 MPa)	1,200 psi (8.2 MPa)
Splitting Tensile Strength	(ASTM C496)	
28 days	450 psi (3.1 MPa)	700 psi (4.8 MPa)
Bond Strength *(ASTM C		
28 days	2,000 psi (13.8 MPa)	2,000 psi (13.8 MPa)
* Mortar scrubbed into substrate		



construct

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How to Use				
Surface Preparation	Surface Preparation Remove all deteriorated concrete, dirt, oil grease and all bond inhibiting materials from surface. Preparation work should be done by high pressure water blast, scabbler, or other appropriate mechanical means to obtain an exposed aggregate surface with a minimum surface profile of $\pm 1/8$ inch. (CSP-6). Saturate surface with clean water. Substrate should be saturated surface dry (SSD) with no standing water during application.			
	Priming			
	For priming of reinforcing steel use Sika®Armatec® 110 EpoCem (consult Technical Data Sheet). Concrete Substrate: Prime the prepared substrate with a brush or sprayed applied coat of Sika® Armatec® 110 EpoCem (consult Technical Data Sheet). Alternately, a scrub coat of SikaRepair® 222 can be applied prior to placement of the mortar. The repair mortar has to be applied into the wet scrub coat before it dries.			
Mixing	With water: Wet down all tools and mixer to be used. Add approximately 3/4 gallon of water to mixing vessel. Slowly add 1 bag of SikaRepair [®] 222 while continuing to mix. Mechanically mix with a low-speed drill (400-600 rpm) and Sika paddle or in an appropriate size mortar mixer. Add an additional 1/8 gallon of water if needed. With Latex R: Pour 3/4 gallon of SikaLatex [®] R into the mixing container. Slowly add powder, mix and adjust as above.			
	With diluted Latex R: SikaLatex [®] R may be diluted up to 5:1 (water: Sika Latex R) for projects requir- ing minimal polymer-modification. Pour 3/4 gallon of the mixture into the mixing container. Slowly add powder, mix and adjust as above. SikaRepair [®] 222 Concrete: For applications greater than 1 inch depth, add a 3/8 inch coarse aggregate. Aggregate must be non-reactive (reference ASTMC1260, C227 and C289), clean, well-graded, saturated surface dry (SSD), have low absorption and high density, and comply with ASTM C33 size number 8 per Table 2. Addition rate must not exceed 32 lbs. of aggregate/ bag of SikaRepair [®] 222 (32 lbs. of 3/8 in. aggregate is approximately 2.5 to 3.0 gal. by loose volume of aggregate). Water may be varied to achieve the desired consistency. Do not over water.			
Application	The prepared mortar must be scrubbed into the substrate, filling all pores and voids. Force material against edge of repair, working toward center. After filling repair, consolidate, then screed. Allow mortar to set to desired stiffness, then finish. Mixing, placing and finishing should not exceed 45 minutes maximum.			
Tooling & Finishing	Curing As per ACI recommendations for portland cement concrete, curing is required. Moist cure with wet burlap and polyethylene, a fine mist of water or a water based, compatible curing compound. Curing compounds adversely affect the adhesion of following lifts of mortar, leveling mortar or protective coatings. Moist curing should commence immediately after finishing. Protect freshly applied mortar from direct sunlight, wind, rain and frost.			
Limitations	 Application thickness: (with water and diluted Latex R) Min. Max. inches one lift Neat 1/4 inch (6 mm) 1 inch (25 mm) Extended 1 inch (25 mm) 4 inches (100 mm) Application thickness: (with undiluted Latex R) Min. Max. inches one lift Neat 1/8 in (3 mm) 1 inch (25 mm) Extended 1 inch (25 mm) 4 inches (100 mm) Minimum ambient and surface temperatures 45°F (7°C) and rising at time of application. Addition of coarse aggregates may result in variations of the physical properties of the mortar. Use only potable water. Not intended for use as an overlay material. As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur® Hi-Mod 32. 			
INST SHEI PART TO R	R TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND RUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA ET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE- IMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION EAD AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR- I PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.			
For fur actual	P CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY. further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the ial Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet ore using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.			
Data SI ment a for eac	or to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product a Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart- nt at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to duct use.			
the cur Buyer's EXPRE SHALL THE US SALE	arrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on rent Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. s sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES SS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR SE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY do 201-933-8800.			
R Visit o	ur website at usa.sika.com 1-800-933-SIKA NATIONWIDE			
Ka Si 20 Ly P	nal Information and Sales Centers. For the location of your nearest Sika sales office, contact your regional center. ka Corporation 1) Polito Avenue onder 800-933-7452 ax: 201-933-6225 As: 201-933-6225 As: 514-694-2792 As: 52 442 2250537 Risponsibility Risponsibility Risponsibility As: 52 442 2250537			

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Product Data Sheet Edition 7.14.2014 SikaRepair 223

SikaRepair[®] 223

One component, early strength gaining, cementitious patching material

Description	SikaRepair 223 is a one-component, early strength gaining, cementitious, patching material for verti- cal and overhead repair of concrete.			
Where to Use	On grade, above, and below grade on concrete and mortar.As a repair material for vertical and overhead concrete surfaces.			
Advantages	 Easy-to-use. Suitable for exterior and interior applications. Easily applied to clean, sound substrate. High early strengths. Increased abrasion resistance. Increased freeze/thaw resistance. Not a vapor barrier. Not flammable 			
Coverage	Approximately 0.41 cu. ft.			
Packaging	SikaRepair 223 - 50 lb. multi-wall bag. SikaLatex R - 1 gal. plastic jug; 4/carton, 5 gal. pails			
	Typical Data (<i>Material and curing conditions</i> @ 73°F (23°C) and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.			
	Shelf Life One year in original, unopened bags.			
	Storage Conditions Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using.			
	Color Concrete gray			
	Mixing Ratiogallon to 1 gallon of liquid per 50 lb. bag			
	Application Time Approximately 15 min. after adding powder to Latex or Latex plication time is dependent on temperature and relative humi			
	Finishing Time 20 to 60 min after combining powder and liquid: depends on terperature, relative humidity, and type of finish desired			
	Flexural Strength (ASTM C-293) with undiluted Late 28 days 850 psi (5.9 MPa) 1,200 psi (8.2 MPa)	x R		
	Splitting Tensile Strength (ASTM C-496)700 psi (4.8 MPa)28 days550 psi (3.8 MPa)700 psi (4.8 MPa)			
	Bond Strength * (ASTM C-882 modified 28 days 1,800 psi (12.4 MPa) 2,000 psi (13.8 MPa))		
	Compressive Strength (ASTM C-109) 1 day >3,500 psi (20.7 MPa) >4,000 psi (22.8 MPa) 7 days 6,000 psi (41.4 MPa) 6,200 psi (42.8 MPa) 28 days >7,500 psi (48.3 MPa) >8,000 psi (51.7 MPa))		

*Mortar scrubbed into substrate



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Demons of deteriorstad consists diff air areas, and all hand inhibiting materials from surface. De
Remove all deteriorated concrete, dirt, oil, grease, and all bond-inhibiting materials from surface. Be sure repair area is not less than $1/4$ inch in depth. Preparation work should be done by scabbler or other appropriate mechanical means to obtain an exposed aggregate surface with a minimum surface profile of $\pm 1/8$ inch (CSP-6). Saturate surface with clean water. Substrate should be saturated surface dry (SSD) with no standing water during application.
For priming of reinforcing steel use Sika Armatec 110 EpoCem (consult Technical Data Sheet).
Concrete Substrate: Prime the prepared substrate with a brush or sprayed applied coat of Sika Armatec 110 EpoCem (consult Technical Data Sheet). Alternately, a scrub coat of Sika Repair 223 can be applied prior to placement of the mortar. The repair mortar has to be applied into the wet scrub coat before it dries.
With water: Wet down all tools and mixer to be used. Add approximately 3/4 gallon of water to mixing vessel. Slowly add 1 bag of SikaRepair 223 while continuing to mix. Mechanically mix with a low-speed drill (400-600 rpm) and Sika paddle. 1/4 gallon of water may be added to achieve desired consistency. Do not over water. Maintain a mix temperature of 65°-75°F for maximum performance by using hot or cold water as needed. With Latex R: Pour 3/4 gallon of SikaLatex R into the mixing container. Slowly add powder while
continuing to mix mechanically as above. Add remaining SikaLatex R (up to 1/4 gallon) to adjust the desired consistency.
note: SikaLatex R must be protected from freezing. If frozen, discard.
With diluted Latex R: Sika Latex R may be diluted up to 5:1 (water:Sika Latex R) for projects requiring minimal polymer-modification. Pour 3/4 gallon of the mixture into the mixing container. Slowly add powder and mix as above. Add remaining diluted SikaLatex R (up to 1/4 gallon) to adjust the desired consistency.
At the time of application, surfaces should be saturated surface dry (SSD) with no standing water. Mortar must be scrubbed into the substrate, filling all pores and voids. Force material against edge of repair, working toward center. After filling repair, consolidate, then screed. Material may be applied in multiple lifts. The thickness of each lift not to be less than 1/2 inch minimum. Where multiple lifts are required score top surface of each lift to produce a roughened surface for next lift. Allow preceding lift to reach final set, 30 minutes minimum before applying fresh material. Saturate surface of the lift with clean water. Scrub fresh mortar into preceding lift. Allow mortar to set to desired stiffness, then finish with wood or sponge float for a smooth surface, or texture as required. For repairs greater than 1 inch in depth, the use of SikaRepair 222 extended with coarse aggregate, and appropriate formwork is also recommended.
Important: Maximum bond is achieved with application of a scrub coat on properly prepared, saturated surface dry (SSD) substrate.
As per ACI recommendations for portland cement concrete, curing is required. Moist cure with wet burlap and polyethylene, a fine mist of water or a water based compatible curing compound. Curing compounds adversely affect the adhesion of following lifts of mortar, leveling mortar or protective coatings. Moist curing should commence immediately after finishing. Protect freshly applied mortar from direct sunlight, wind, rain and frost.
 Application thickness: (with water and diluted Latex R) Minimum ¼ inch (6 mm). Maximum in one lift 1.5 inch (38 mm). Application thickness: (with undiluted Latex R) Minimum ¼ inch (3 mm). Maximum in one lift 1.5 inch (38 mm). Minimum ambient and surface temperatures 45°F (7°C) and rising at time of application. Use only potable water. Do not use solvent-based curing compound. As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur Hi-Mod 32.



Construction

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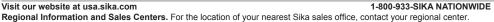
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Product Data Sheet Edition 7.15.2014 SikaRepair SHA

SikaRepair[®] SHA

Fast-setting, one component, cementitious repair mortar with superior high build properties

Description	kaRepair SHA is a fast-setting, one-component, cementitious ready to use repair mortar. The corporation of low density aggregates allows high build applications on vertical and overhead rfaces. SikaLatex R or SikaLatex may be used instead of water for a two component, lymer-modified repair mortar.			
Where to Use	 Fast repairs to overhead and vertical concrete and mortar surfaces on grade, above and below grade. As a repair meterial for building feeddee, parking structures, industrial plants, bridges, etc. 			
Advantages	 As a repair material for building facades, parking structures, industrial plants, bridges, etc. Minimal time required between lifts. Fast finishing time Time/labor-saving material; application up to 3 inches on vertical surfaces in one layer. Easy to use; just add water. High bond strength ensures excellent adhesion. Good, early and ultimate strength. Increased freeze/thaw durability and resistance to deicing salts. Easy to clean. Suitable for exterior and interior applications. Not a vapor barrier. 			
Coverage	0.55 cu. ft./bag			
Packaging	Sika Repair SHA: 25 lb. bag, 60/pallet; 50 lb. (22.7 kg.) multi-wall bag. SikaLatex (R): 1 gal. plastic jug; 4/carton, 5 gal. pails. Typical Data (Material and curing conditions @ 73°F (23C) and 50% R.H.)			
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT,			
	TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.			
	Shelf LifeOne year in original, unopened bags.			
	Storage Conditions Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using.			
	Color Concrete gray.			
	Mixing Ratio1 50 lb. bag SikaRepair SHA + 3/4 gal. to 1 gal. of liquid			
	Density (Wet mix) 106 lbs./cu. ft. (1.70 kg./l)			
	Application Time Approximately 10-15 minutes.			
	Finishing Time 20-30 minutes			
	Time Between Lifts Less than 1 hour			
	Compressive Strength (ASTM C-109) with Latex R 1 day 2,000 psi (13.8MPa) 2,500 psi (17.2 MPa) 7 days 3,000 psi (20.7 MPa) 3,500 psi (24.1 MPa) 28 days 4,500 psi (31.0 MPa) 5,000 psi (34.5 MPa)			
	Second Strength (ASTM C-293) 28 days 800 psi (5.5 MPa) 1,100 psi (9.7 MPa)			
	Bond Strength * (ASTM C-882 modified 28 days 1,000 psi (6.8 MPa) 1, 800 psi (12.4 MPa) *Mortar scrubbed into substrate			
How to Use				
Substrate	Concrete, mortar, and masonry products.			
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Surface Preparation -	 Concrete/Mortar: Remove all deteriorated concrete, dirt, oil, grease, and all bond-inhibiting materials from surface. Preparation work should be done by high pressure water blast, scabbler or other appropriate mechanical means to obtain an exposed aggregate surface profile of ±1/16-in. (CSP-5). After preparation, substrate strength should be verified prior to patch placement. Substrate should be saturated surface dry (SSD) with no standing water during application. Reinforcing Steel: Steel reinforcement should be thoroughly prepared by mechanical cleaning to remove all traces of rust. Where corrosion has occurred due to the presence of chlorides, the steel should be high pressure washed with clean water after mechanical cleaning. For priming of reinforcing steel use Sika Armatec 110 EpoCem (consult Technical Data Sheet). Concrete Substrate: Prime the prepared substrate with a brush or sprayed applied coat of Sika Armatec 110 EpoCem (consult Technical Data Sheet). Alternately, a scrub coat of Sika Repair SHA can be applied prior to placement of the mortar. The repair mortar has to be applied into the wet scrub coat before it dries.
Mixing	 With water: Pour 3/4 of one gallon of water into the mixing container. Add powder while mixing continuously. Mix mechanically with a low-speed drill (400-600 rpm) and mixing paddle or in an appropriate mortar mixer. Add more water to obtain desired consistency of the mortar. Do not exceed one gallon per bag. Mix to uniform consistency, maximum 3 minutes. Manual mixing can be tolerated only for less than a full unit. Thorough mixing and proper proportioning is necessary. With Latex R: Pour 3/4 gallon of Sika Latex R into the mixing container. Slowly add powder and mix as above. With diluted Latex R: Sika Latex R may be diluted up to 5:1 (water: Sika Latex R) for projects requiring minimal polymer-modification. Pour 3/4 gallon of the mixture into the mixing container. Slowly add powder and mix as above.
	Note: SikaLatex R must be protected from freezing. If frozen, discard.
Application	The mixed SikaRepair SHA must be worked well into the primed substrate, filling all pores and voids. Compact well. Force material against edge of repair working towards the center. Thoroughly compact the mortar around exposed reinforcement. After filling repair, consolidate, then screed. Finish with steel, wood, plastic floats, or damp sponges, depending on the desired surface texture. Where multiple lifts are required, score top surface on each lift to produce a roughened substrate for next lift. Allow preceding lift to harden before applying fresh material. Saturate surface of the lift with clean water. If previous layers are over 48 hours old, mechanically prepare the substrate and dampen.
Tooling and Finishing	As per ACI recommendations for portland cement concrete, curing is required. Moist cure with wet burlap and polyethylene, a fine mist of water or a water based* compatible curing compound. Curing compounds adversely affect the adhesion of following lifts of mortar, leveling mortar or protective coatings. Moist curing should commence immediately after finishing. Protect freshly applied mortar from direct sunlight, wind, rain and frost. * Pretesting of curing compound is recommended.
Limitations	 Application thickness: Minimum: With water: 1/4 inch (6 mm). With Latex R: 1/8" (3 mm). Maximum in one lift: 3 inches (75 mm) vertical, 1.5 inches (38 mm) overhead. Minimum ambient and surface temperatures 45°F (7°C) and rising at time of application. Do not use solvent based curing compounds. As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur Hi-Mod 32.

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SikaRepair[®] SHB

One component, cementitious repair mortar with superior high build properties that may be hand applied or wet-sprayed

Description	SikaRepair SHB is a one-component, cementitious ready to use repair mortar. It is a multi-purpose mor- tar which can be applied by trowel or low pressure wet spray process. The incorporation of low density aggregates allows high build applications on vertical and overhead surfaces. SikaLatex R or SikaLatex may be used instead of water for a two component, polymer-modified repair mortar.
Where to Use	 Fast repairs to overhead and vertical concrete on mortar surfaces on grade, above and below grade. As a repair material for building facades, parking structures, industrial plants, bridges, etc.
Advantages	 Time/labor-saving material; application up to 3 inches on vertical surfaces in one layer. Application by hand or low pressure wet spray method. Easy to use; just add water. High bond strength ensures excellent adhesion. Good, early and ultimate strength. Increased freeze/thaw durability and resistance to deicing salts. Easy to clean. Suitable for exterior and interior applications. Not a vapor barrier.
Coverage	0.55 cu. ft./bag
Packaging	Sika Repair SHB: 25 lb. bag, 60/pallet, 50 lb. (22.7 kg.) multi-wall bag.
	SikaLatex (R): 1 gal. plastic jug; 4/carton, 5 gal. pails.

Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life	One year in original, unopened bags.			
Storage Conditions	Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using.			
Color	Concrete gray			
Mixing Ratio	1 50 lb. bag SikaRepair SHB + 3/4 to 1 gallon of liquid			
Density (Wet mix)	106 lbs./cu. ft. (1.70 kg./l.)			
Working Time	Approximately 30 minutes.			
Finishing Time	(Initial Set) 2-3 hours			
-		090) 2,500 psi (17.2MPa) 5,000 psi (34.5 MPa)	with Latex R 2,500 psi (17.2 MPa) 5,000 psi (34.5 MPa)	
Exercise Strength (ASTM C-293) Strength (ASTM C-293) 1,400 psi (9.7 MPa) 28 days 800 psi (5.5 MPa) 1,400 psi (9.7 MPa)			1,400 psi (9.7 MPa)	
Bond Strength * (ASTM C-882 modified 28 days 1,000 psi (6.8 MPa) 1, 800 psi (12.4 MPa)			1, 800 psi (12.4 MPa)	
*Mortar scrubbed into substrate				



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How to Use Substrate	Concrete, mortar, and masonry products.
Surface Preparation	Concrete/Mortar: Remove all deteriorated concrete, dirt, oil, grease, and all bond-inhibiting materials from surface. Preparation work should be done by high pressure water blast, scabbler or othe appropriate mechanical means to obtain an exposed aggregate surface profile of ±1/16-in. (CSP5) Substrate should be saturated surface dry (SSD) with no standing water during application. Reinforcing Steel: Steel reinforcement should be thoroughly prepared by mechanical cleaning to remove all traces of rust. Where corrosion has occurred due to the presence of chlorides, the steel should be high pressure washed with clean water after mechanical cleaning.
Priming	For priming of reinforcing steel use Sika Armatec 110 EpoCem (consult Technical Data Sheet).
	Concrete Substrate: Prime the prepared substrate with a brush or sprayed applied coat of Sika Armatec 110 EpoCem (consult Technical Data Sheet). Alternately, a scrub coat of Sika Repair SHB car be applied prior to placement of the mortar. The repair mortar has to be applied into the wet scrub coat before it dries.
Mixing	 With water: Pour 3/4 of one gallon of water into the mixing container. Add powder while mixing continue ously. Mix mechanically with a low-speed drill (400-600 rpm) and mixing paddle or in an appropriate mortar mixer. Adjust water to desired consistency of the mortar. Do not exceed one gallon per bag Mix to uniform consistency, maximum 3 minutes. Manual mixing can be tolerated only for less than a full unit. Thorough mixing and proper proportioning is necessary. With Latex R: Pour 3/4 gallon of Sika Latex R into the mixing container. Slowly add powder, mix and adjust as above. With diluted Latex R: Sika Latex R may be diluted up to 5:1 (water: Sika Latex R) for projects requiring minimal polymer modification. Pour 3/4 gallon of the mixture into the mixing container. Slowly add powder, mix and adjust as above.
	Note: SikaLatex R must be protected from freezing. If frozen, discard.
Application	SikaRepair SHB can be applied either by hand or wet spray process equipment. The mixed SikaRepair SHB must be worked well into the primed substrate, filling all pores and voids. Compact well. Force material against edge of repair working towards the center. Thoroughly compact the mortar around exposed reinforcement. After fillin repair, consolidate, then screed. Finish with steel, wood, plastic floats, or damp sponges, dependig on the desired surface texture. Where multiple lifts are required score top surface on each lift to produce a roughened substrate for next lift. Allow preceding lift to harden before applying fresh material. Saturate surface of the lift with clean water. If previous layers are over 48 hours old, mechanically prepare the substrate and dampen.
	Application by machine: Apply SikaRepair SHB mortar by low or high pressure wet spray. Shoo SikaRepair SHB perpendicular to the surface. This minimizes rebound, creates the smoothest pattern (reduces 'bumps') and properly encases the rebars. The velocity of the material is sufficient if, at a distance of 18 to 24 in., the material pattern flattens out on contact with the surface and the rebars are encased. After applying the material, allow it to stiffen for about 10 minutes before removing bumpy areas with a trowel. Before applying the next layer, allow the material to reach initial set. This will take anywhere from 45 minutes to several hours, depending on mix consistency, mix and ambient temperature, wind conditions and humidity. Begin and finish a given patch on the same da .
Tooling and Finishing	As per ACI recommendations for portland cement concrete, curing is required. Moist cure with we burlap and polyethylene, a fine mist of water or a water based* compatible curing compound. Curing compounds adversely affect the adhesion of following lifts of mortar, leveling mortar or protective coat ings. Moist curing should commence immediately after finishing. Protect freshly applied mortar from direct sunlight, wind, rain and frost.
	* Pretesting of curing compound is recommended.
Limitations	 Application thickness: Minimum: With water: 1/4 inch (6 mm). With Latex R: 1/8 inch (3 mm). Maximum in one lift: 3 inches (75 mm) vertical. 1.5 inches (38 mm) overhead. Minimum ambient and surface temperatures 45°F (7°C) and rising at time of application. Do not use solvent based curing compounds. As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur Hi-Mod 32.



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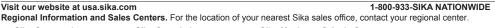
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Product Data Sheet Edition 7.15.2014 SikaTop 121 Plus

SikaTop® 121 PLUS

Two-component, polymer-modified, cementitious leveling/pore sealing mortar plus FerroGard 901 penetrating corrosion inhibitor

Description	SikaTop 121 <i>PLUS</i> is a two component, polymer-modified, leveling and pore sealing mortar with the additiona benefit of FerroGard 901, penetrating corrosion inhibitor. SikaTop 121 <i>PLUS</i> provides a smooth substrate, free of irregularities and bug holes for following protective coatings.				
Where to Use	 As a leveling/pore sealing mortar prior to protective coatings. On horizontal, vertical and overhead surfaces, interior and exterior. On grade, above and below grade, on concrete and mortar substrates. Block filler. Minor repair for gouges and broken edges. 				
Advantages	 Excellent adhesion to concrete and mortar substrates. High flexural and compressive strengths Increased density - improved carbon dioxide resistance (carbonation) without adversely affecting water vapor transmission (not a vapor barrier). Increased freeze/thaw durability and resistance to deicing salts. Adds effective cover over rebars. Enhanced with FerroGard 901, a penetrating corrosion inhibitor - reduces corrosion even in the adjacent concrete. Compatible with coefficient of thermal expan ion of concrete - Passes ASTM C-884 (modified) Can be applied over Sika FerroGard 903, corrosion inhibiting impregnation. Not flammable 				
Coverage	0.4 cu. ft./unit; One unit covers approximately 65 sq. ft. (6 m2) of smooth surface at 1/12 inch (2 mm) thickness				
Packaging	Component 'A' - 1 gal. plastic jug; 4/carton. Component 'B' - 46.5 lb. multi-wall bag.				
	Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.)				
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.				
	Shelf Life One year in original, unopened packaging.				
	Storage Conditions Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using. Protect Component 'A' from freezing; if frozen, discard.				
	Color Concrete gray when mixed.				
	Mixing Ratio Plant-proportioned kit. Mix entire unit.				
	ApplicationApproximately 45 min. after adding Component 'B' to Component 'A'.				
	Time Application time is dependent on temperature and relative humidity.				
	Finishing Time45 to 60 min. after combining components; depends on temperature, relative humidity, and type of finish desired				
	Flexural Strength (ASTM C-293)28 days2,000 psi (13.8 MPa)				
	Splitting Tensile strength (ASTM C-496) 28 days 750 psi (5.2 MPa)				
	Bond Strength* (ASTM C-882 modified 28 days 2,000 psi (13.8 MPa)				
	Bond Strength Pull-Out Test (ACI 503R-30 modified failure 28 days 350 psi (2.4 MPa) substrate				
	Compressive Strength (ASTM C-109) 1 day 1,250 psi (8.6 MPa) 7 days 5,000 psi (34.5 MPa) 28 days 6,000 psi (41.4 MPa)				
	Permeability (AASHTO T-277) 28 days Approximately 500 Coulombs				
	Corrosion Testing for FerroGard 901 Cracked Beam Corrosion Tests: Reduced corrosion rates 63% versus control specimens. ASTM G109 modified after 400 days * Mortar scrubbed into substrate.				
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How to Use	
Substrate	Concrete, mortar, and masonry products.
Surface Preparation	Remove all deteriorated concrete, dirt, oil, grease and all bond-inhibiting materials from the surface. Surface should be open-pore and textured (CSP-4). Saturate surface with clean water. Substrate should be saturated surface dry (SSD) with no standing water during application.
Priming	For priming of reinforcing steel use Sika Armatec 110 EpoCem (consult Technical Data Sheet).
	Concrete Substrate: Prime the prepared substrate with a brush or sprayed applied coat of Sika Armatec 110 EpoCem (consult Technical Data Sheet). Alternately, a scrub coat of SikaTop 121 Plus can be applied prior to placement of the mortar. The repair mortar has to be applied into the wet scrub coat before it dries.
Mixing	Pour approximately 4/5 of Component A into mixing container. Add Component B while continuing to mix. Mechanically mix with a low-speed drill (400-600 rpm) and paddle or appropriate-size mortar mixer. Mix to uniform consistency, maximum 3 minutes. Add remaining Component A to mix if a more loose consistency is desired. Manual mixing can be tolerated only for less than a full unit.
Application	SikaTop 121 PLUS can be applied by trowel, notched trowel, stiff bristle, or low pressure hopper gun. Work the material well into the prepared substrate, filling all pores and voids. As soon as the mortar layer starts to set, a uniform surface texture can be obtained by rubbing the surface with a fine sponge or a plastic trowel. Do not overwork SikaTop 121 PLUS during finishing and avoid the use of additional wate .
Tooling and Finishing	g As per ACI recommendations for portland cement concrete, curing is required. Protect the freshly applied mortar against direct sunlight, wind, frost and rain. Curing compounds adversely affect the adhesion of protective coatings. Therefore, do not use a water based curing compound, if the leveling mortar is going to be over coated.
Limitations	 Application thickness: Minimum 1/12 inch (2 mm); Maximum 1/6 inch (4 mm) Minimum ambient and surface temperatures, 45°F (7°C) and rising at time of application. As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur Hi-Mod 32.

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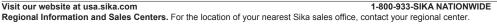
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Product Data Sheet Edition 4.10.2015 SikaTop[®] 122 PLUS TESTED PER ICRI GUIDELINE FOR INORGANIC REPAIR MATERIAL DATA SHEET PROTOCOL GUIDELINE NO. 320.3R

SikaTop® 122 PLUS Two-component, polymer-modified, cementitious, trowel-grade mortar plus Sika FerroGard® 901 penetrating corrosion inhibitor

	 •		•••	penetrating	00110	
Description	a high		for horizontal			st-setting, trowel-grade mortar. It is litional benefit of Sika FerroGard®
Where to Use	On g	rade, above and below grad	e on concret	e and mortar.		
		orizontal surfaces.				
			parking struct	tures, industrial plants, walky	vays, bridge	s, tunnels, dams, ramps, floods, etc
		vel concrete surfaces. n overlay system for topping/	/resurfacing (concrete		
Advantages						
Advantages		emely low shrinkage proven compressive and flexural str		ustry standard test method	15.	
		abrasion resistance.	ongalo.			
		ased freeze/thaw durability a				
		patible with coefficient of the				ly affecting water vapor transmis-
		(not a vapor barrier).				iy allecting water vapor transmis-
		FerroGard [®] 901, a penetrati	ng corrosion	inhibitor - reduces corrosior	even in the	adjacent concrete.
		A certifiable for the food indu				
		I/NSF Standard 61 potable w				
Coverage	0.51 c	cu. ft./ unit mortar; 0.75 cu. ft	./unit concret	te; (mixed mortar + 42 lbs. 3	/8 pea grave	31)
Packaging	Comp	oonent 'A' - 1-gal. plastic jug	;; 4/carton. C	omponent 'B' - 61.5-lb. mu	lti-wall bag.	
		RESULTS MAY DIFFER BASE	D UPON STAT		DING UPON N E CONDITION	IIXING METHODS AND EQUIPMENT, NS AND CURING CONDITIONS.
		Storage Conditions	-	at 40°-95°F. Condition mater		°E before using Protect
		Storage continuons		nt 'A' from freezing. If frozen		T before using. Frotect
		Color		gray when mixed.		
		Mixing Ratio	-	ortioned kit, mix entire unit.		
		Application Time		ately 30 minutes.		
		Finishing Time	50-120 mii			
		Note: All times start afte	er adding Con			ghly affected by temperature, onditions.
		Density (wet mix)		ASTM C 138		136 lbs./ft³ (2.18 kg./l)
		Flexural Strength		ASTM C 293	28 days	1,500 psi
		Split Tensile		ASTM C 496	28 days	500 psi
		Bond Strength		ASTM C 882 (modified)	28 days	2,000 psi
		Compressive Strength		ASTM C 109		
					1 day	2,500 psi
					7 days 28 days	5,300 psi 7,000 psi
		Shrinkaga		ASTM C 157	20 uays	7,000 psi
		Shrinkage		(mod. ICRI 320.3R)		
		Specimen Size 4"x4"x4	4 4/4"	(1100. 1011 320.31)	29 dava	<0.05%
		Specimen Size 1"x1"x1			28 days	
		Specimen Size 3"x3"x1	1-1/4	ASTM C 1581	28 days	<0.021%
		Ring Test (days) Ring Test - Average Max \$	Strain	ASTM C 1581		>70 days -9 µstrain
		Ring Test - Average Max -		ASTM C 1581		0.49 psi/day
		Ring Test - Potential for C		ASTM C 1581		Low
		Baenzinger Block	ruoning		90 days	No cracking
		Freeze/Thaw Durability (3	ROD cycloc)	ASTM C 666		98%
		CI Permeability	ou cycles)	ASTM C 666 ASTM C 1202		<pre>90%</pre> <pre><pre><pre><pre><pre><pre><pre><</pre></pre></pre></pre></pre></pre></pre>
		Direct Bond Strength				-000 00000005.
		Direct Bond Strength		ASTM C 1583	7 dava	400 psi
					7 days	400 psi >300 psi
X		Medulue of Electicity		ACTM C 524	28 days	>300 psi
		Modulus of Elasticity		ASTM C 531		3.00x10 ⁶ psi
		Initial Set Time (min)		ASTM C 266		40-70



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Substrates	Concrete, mortar, and masonry p	oroducts.		
Surface Preparation	Remove all deteriorated concrete, dirt, oil, grease and all bond inhibiting materials from surface. Be sure repair area is not less than 1/8 inch in depth. Preparation work should be done by high pressure water blast, scabbler, or other appropriate mechanical means to obtain an exposed aggregate surface with a minimum surface profile of ±1/16 inch (CSP-5); ±1/8 incl (CSP-6). Saturate surface with clean water. Substrate should be saturated surface dry (SSD) with no standing water during application.			
	Where corrosion has occurred du	e to the presence of chlorides	prepared by mechanical cleaning to remove all traces of rust s, the steel should be high-pressure washed with clean water Sika® Armatec® 110 EpoCem (Consult Product Data Sheet)	
		Sheet). Alternately, a scrub co	with a brush or sprayed applied coat of Sika® Armatec® 110 bat of SikaTop® 122 PLUS can be applied prior to placemen scrub coat before it dries.	
Mixing	Pour approximately 7/8 of Component 'A' into the mixing container. Add Component 'B' (powder) while mixing continuously Mix mechanically with a low-speed drill (400- 600 rpm) and mixing paddle or mortar mixer. Add remaining Component 'A (liquid) to mix if a more loose consistency is desired. Mix to a uniform consistency, maximum 3 minutes. Thorough mixing and proper proportioning of the two components is necessary.			
	For SikaTop [®] 122 PLUS concrete: Pour all of Component 'A' into mixing container. Add all of Component 'B' while mixing, then introduce 3/8 inch coarse aggregate at desired quantity. Mix to uniform consistency, maximum 3 minutes. Addition rate is 42 lbs. per bag (approx. 3.0 to 3.5 gal. by loose volume). The aggregate must be non-reactive (reference ASTM C 1260, C 227 and C 289), clean, well-graded, saturated surface dry, have low absorption and high density, and comply with ASTM C 33 size number 8 per Table 2. Note: Variances in the quality of the aggregate will affect the physical properties of SikaTop [®] 122 PLUS. The yield is increased to 0.75 cu. ft./unit with the addition of the aggregate (42 lbs.). Do not use limestone aggregate.			
Application	working toward center. After filling	g repair, consolidate, then scr	g all pores and voids. Force material against edge of repair eed. Allow mortar or concrete to set to desired stiffness, ther m or burlap-drag for a rough finish.	
Tooling & Finishing	As per ACI recommendations for portland cement concrete, curing is required. Moist cure with wet burlap and polyethylen a fine mist of water or a water based* compatible curing compound (ASTM C 309 compliant). Curing compounds adverse affect the adhesion of following layers of mortar, leveling mortar or protective coatings. Moist curing should commence in mediately after finishing. Protect newly applied material from direct sunlight, wind, rain and frost. *Pretesting of curing compound is recommended.			
Limitations	Application thickness: Neat Extended	Min. 1/8 inch (3 mm) 1 inch (25 mm)	Max. in one lift 1 inch (25 mm) 4 inches (100 mm)	
	 Minimum ambient and surface temperatures 45°F (7°C) and rising at time of application. Addition of coarse aggregates may result in variations of the physical properties of the mortar. Do not use solvent-based curing compound. Size, shape and depth of repair must be carefully considered and consistent with practices recommended by ACI or ICRI. For additional information, contact Technical Service. For additional information on substrate preparation, refer to ICRI Guideline No.310.2R Coatings, Polymer Overlays, and Concrete Repair. If aggressive means of substrate preparation is employed, substrate strength should be tested in accordance with ACI 503 Appendix A prior to the repair application. As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur[®] 32, Hi-Mod. 			

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Product Data Sheet Edition 4.10.2015 SikaTop® 123 PLUS TESTED PER ICRI GUIDELINE FOR INORGANIC REPAIR MATERIAL DATA SHEET PROTOCOL GUIDELINE NO. 320.3R

SikaTop® 123 PLUS Two-component, polymer-modified, cementitious, non-sag mortar plus Sika FerroGard® 901 penetrating corrosion inhibitor

	high	op® 123 PLUS is a two-component, polymer-modified, Portland cement-based, fast-setting, non-sag mortar. It is a performance repair mortar for vertical and overhead surfaces and offers the additional benefit of Sika FerroGard® a penetrating corrosion inhibitor included in its formulation.					
Where to Use	■ On v ■ As a	grade, above and below grade on concrete and mortar. /ertical and overhead surfaces. / structural repair material for parking structures, industrial plants, walkways, bridges, tunnels, dams and ramps. roved for repairs over cathodic protection systems					
Advantages	Extr High Incr Com Incre sion Enh	emely low shrinkage proven a compressive and flexural st eased freeze/thaw durability a npatible with coefficient of the eased density - improved car (not a vapor barrier). anced with Sika FerroGard® 9 DA certifiable for incidental for SI/NSF Standard 61 potable v	by four indu trengths. and resistance ermal expansi rbon dioxide n 901, a penetr od contact	e to deicing salts. on of concrete - Passes AST esistance (carbonation) with ating corrosion inhibitor - rec	ΓM C 884. out adverse	, 0	·
Coverage	0.39	cu. ft./ unit.					
Packaging	Com	ponent 'A' - 1-gal. plastic jug	q; 4/carton. C	omponent 'B' - 44-lb. multi-	wall bag.		
		RESULTS MAY DIFFER BASE TEMPERATURE, APPLICATIC Shelf Life	ED UPON STAT ON METHODS, One year i	ditions @ 73°F (23°C) and ISTICAL VARIATIONS DEPEND TEST METHODS, ACTUAL SIT n original, unopened packag	E CONDITION	NS AND CURI	NG CONDITIONS.
		Storage Conditions		at 40°-95°F. Condition matering to the free of the fre		°F before us	sing. Protect
		Color	Concrete g	gray when mixed.			
		Mixing Ratio	Plant-prop	ortioned kit, mix entire unit.			
		Application Time	Approxima	tely 15 minutes.			
		Finishing Time	20-60 mini	utes			
		Note: All times start after	er adding Con	nponent 'B' to Component 'A	and are hig	ghly affected	by temperature,
		relative humidity,	substrate terr	perature, wind, sun and othe	er job site c	onditions.	
		Density (wet mix)		ASTM C 138		132 lbs./ft	³ (2.2 kg./l)
		Flexural Strength		ASTM C 293	28 days		1,500 psi
		Split Tensile		ASTM C 496	28 days		900 psi
		Bond Strength		ASTM C 882 (modified)	28 days		2,000 psi
		Compressive Strength Shrinkage		ASTM C 109 ASTM C 157	1 day 7 days 28 days		3,000 psi 4,000 psi 6,000 psi
		•		(mod. ICRI 320.3R)			
		Specimen Size 1x1x11-	·1/4"			28 days	0.05%
		•			28 days	0.038%	
		Specimen Size 3x3x11-		ASTM C 1581	28 days	0.038% ≥70 davs	
		Specimen Size 3x3x11- Ring Test (days)	·1/4"	ASTM C 1581 ASTM C 1581	28 days	>70 days	
		Specimen Size 3x3x11- Ring Test (days) Ring Test - Average Max	1/4" Strain	ASTM C 1581	28 days	>70 days -36 µstrair	
		Specimen Size 3x3x11- Ring Test (days) Ring Test - Average Max Ring Test - Average Stres	1/4" Strain ss Strain	ASTM C 1581 ASTM C 1581	28 days	>70 days -36 µstrair 4.92 psi/d	
		Specimen Size 3x3x11- Ring Test (days) Ring Test - Average Max	1/4" Strain ss Strain	ASTM C 1581	28 days 90 days	>70 days -36 µstrair	ау
		Specimen Size 3x3x11- Ring Test (days) Ring Test - Average Max Ring Test - Average Stress Ring Test - Potential for O Baenzinger Block Freeze/Thaw Durability (3	.1/4" Strain ss Strain Cracking	ASTM C 1581 ASTM C 1581 ASTM C 1581 ASTM C 666	·	>70 days -36 µstrair 4.92 psi/da Low No crackir 98%	ay ng
		Specimen Size 3x3x11- Ring Test (days) Ring Test - Average Max 2 Ring Test - Average Stress Ring Test - Potential for 0 Baenzinger Block Freeze/Thaw Durability (3 Cl Permeability (coul)	.1/4" Strain ss Strain Cracking	ASTM C 1581 ASTM C 1581 ASTM C 1581 ASTM C 666 ASTM C 1202	90 days	>70 days -36 µstrair 4.92 psi/da Low No crackir 98% <500 Coul	ay 1g ombs.
		Specimen Size 3x3x11- Ring Test (days) Ring Test - Average Max 2 Ring Test - Average Stress Ring Test - Potential for 0 Baenzinger Block Freeze/Thaw Durability (3 CI Permeability (coul) Direct Bond Strength	.1/4" Strain ss Strain Cracking	ASTM C 1581 ASTM C 1581 ASTM C 1581 ASTM C 666 ASTM C 1202 ASTM C 1583	·	>70 days -36 µstrair 4.92 psi/da Low No crackir 98% <500 Coul 500 psi (st	ay Ig ombs. ubstrate failure)
		Specimen Size 3x3x11- Ring Test (days) Ring Test - Average Max 2 Ring Test - Average Stress Ring Test - Potential for 0 Baenzinger Block Freeze/Thaw Durability (3 Cl Permeability (coul)	.1/4" Strain ss Strain Cracking	ASTM C 1581 ASTM C 1581 ASTM C 1581 ASTM C 666 ASTM C 1202	90 days	>70 days -36 µstrair 4.92 psi/d Low No crackir 98% <500 Coul 500 psi (s 2.94 x 10 ⁶	ay Ig ombs. ubstrate failure)
		Specimen Size 3x3x11- Ring Test (days) Ring Test - Average Max 2 Ring Test - Average Stress Ring Test - Potential for 0 Baenzinger Block Freeze/Thaw Durability (3 CI Permeability (coul) Direct Bond Strength	.1/4" Strain ss Strain Cracking	ASTM C 1581 ASTM C 1581 ASTM C 1581 ASTM C 666 ASTM C 1202 ASTM C 1583	90 days	>70 days -36 µstrair 4.92 psi/da Low No crackir 98% <500 Coul 500 psi (st	ay Ig ombs. ubstrate failure)



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How to Use		
Substrates	Concrete, mortar, and masonry products.	
Surface Preparation	Remove all deteriorated concrete, dirt, oil, grease and all bond inhibiting materials from surface. Be sure repair area is no less than 1/8 inch in depth. Preparation work should be done by high pressure water blast, scabbler, or other appropriate mechanical means to obtain an exposed aggregate surface with a minimum surface profile of ±1/16 inch (CSP-5). Saturate surface with clean water. Substrate should be saturated surface dry (SSD) with no standing water during application.	
	Reinforcing Steel: Steel reinforcement should be thoroughly prepared by mechanical cleaning to remove all traces of rust Where corrosion has occurred due to the presence of chlorides, the steel should be high-pressure washed with clean wate after mechanical cleaning. For priming of reinforcing steel use Sika® Armatec® 110 EpoCem (consult Product Data Sheet)	
	Priming Concrete Substrate: Prime the prepared substrate with a brush or sprayed applied coat of Sika® Armatec® 110 EpoCem (consult Product Data Sheet). Alternately, a scrub coat of SikaTop® 123 PLUS can be applied prior to placemen of the mortar. The repair mortar has to be applied into the wet scrub coat before it dries.	
Mixing	Pour Component 'A' into mixing container. Add Component 'B' while mixing continuously. Mix mechanically with a low-speed drill (400 - 600 rpm) and mixing paddle or mortar mixer. Mix to a uniform consistency, maximum 3 minutes. Manual mixing can be tolerated only for less than a full unit. Thorough mixing and proper proportioning of the two components is necessary	
Application	SikaTop® 123 PLUS must be scrubbed into the substrate, filling all pores and voids. Force material against edge of repair working toward center. After filling repair, consolidate, then screed. Material may be applied in multiple lifts. The thickness of each lift, not to be less than 1/8 inch minimum or more than 1.5 inches maximum. Where multiple lifts are required score to surface of each lift to produce a roughened surface for next lift. Allow preceding lift to reach initial set, 30 minutes minimum before applying fresh material. Saturate surface of the lift with clean water. Scrub fresh mortar into preceding lift. Allow morta or concrete to set to desired stiffness, then finish with wood or sponge float for a smooth surface.	
Tooling & Finishing	As per ACI recommendations for portland cement concrete, curing is required. Moist cure with wet burlap and polyethylene a fine mist of water or a water based*, compatible curing compound (ASTM C 309 complaint). Curing compounds adversely affect the adhesion of following lifts of mortar, leveling mortar or protective coatings. Moist curing should commence im mediately after finishing. If necessary protect newly applied material from direct sunlight, wind, rain and frost. *Pretesting of curing compound is recommended.	
Limitations	 Application thickness: Minimum 1/8 inch (3 mm). Maximum in one lift - 1.5 in. (38 mm). Minimum ambient and surface temperatures 45°F (7°C) and rising at time of application. Do not use solvent-based curing compound. Size, shape and depth of repair must be carefully considered and consistent with practices recommended by ACI or ICRI For additional information, contact Technical Service. For additional information on substrate preparation, refer to ICRI Guideline No. 310.2R re: Polymer Overlays and Concrete Repair. If aggressive means of substrate preparation is employed, substrate strength should be tested in accordance with ACI 500 Appendix A prior to the repair application. As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur® 32, Hi-Mod. 	

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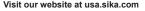
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SikaQuick[®] 1000 Rapid hardening repair mortar with extended working time

Description	SikaQuick [®] 1000 is a 1-component, rapid hardening, early strength gaining, cementitious, patching material for concrete.				
Where to Use	 Use on grade, above, and below grade on concrete. 				
	 Highway overlays and repairs. Structured page is material for exposed ready and page and remains 				
	 Structural repair material for concrete roadways, parking structures, bridges, dams and ramps. Full depth patching repairs. 				
	 Economical patching material for horizontal repairs of concrete and mortar. 				
Advantages	 Specially suited for hot weather applications when extended working time is required. 				
,	 Rapid hardening as defined by ASTM C-928. 				
	 Epoxy coatings can be applied as early as 6 hrs. On site testing is recommended for verification. Please consult coatings manufacturer for recommendations. Freeze/thaw resistant. 				
	 Easy to use, labor-saving material. 				
	 Not gypsum-based. 				
	 High early strength. Open to foot traffic in A house to uphicle traffic in C house (at 72%). 				
	 Open to foot traffic in 4 hours; to vehicle traffic in 6 hours (at 73°F). Easily applied to clean, sound substrate. 				
	 Not a vapor barrier. 				
	Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.) (Water/powder = 0.10)				
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.				
	Shelf Life 1 year in original, unopened bag.				
	Storage Conditions Store dry at 40°-95°F (4°-35°C). For best results, condition material to 65°-75°F before using.				
	Color Concrete gray.				
	Mixing Ratio Approximately 4.5 - 5 pints of liquid per 50 lb. bag.				
	Application Life Approximately 30 minutes after adding powder to the water.				
	Compressive Strength, psi Mortar - ASTM C-109				
	3 hours 1,250 psi (8.6 MPa)				
	1 day 4,000 psi (27.6 MPa) 7 days 5,000 psi (34.5 MPa)				
	28 days 7,000 psi (48.2 MPa)				
	Flexural Strength, psi (ASTM C-78)				
	1 day 700 psi (4.8 MPa)				
	7 days 900 psi (6.2 MPa)				
	28 days 1,000 psi (6.9 MPa)				
	Splitting Tensile Strength, psi (ASTM C-496) 1 day 300 psi (2.0 MPa)				
	7 days 400 psi (2.7 MPa)				
	28 days 500 psi (3.4 MPa)				
	Bond Strength, psi (ASTM C-882) modified				
	1 day 1750 psi (12.0 MPa) 7 days 2000 psi (13.8 MPa)				
	7 days 2000 psi (13.8 MPa) 28 days 2500 psi (17.2 MPa)				
	Direct Tensile Bond, psi (ACI 503) 28 days 300 psi (substrate failure)				
	Drying Shrinkage, % (ASTM C-596) 28 days 0.06				
	Modulus of Elasticity, psi (ASTM C-469) 28 days 4.6 x 10 ⁶				
	Chloride Permeability, Coulombs (ASTM C-1202) 28 days < 1000				
	Freeze/Thaw Resistance, % (ASTM C-666) 28 days 98%				
	Scaling Resistance, Ib./ft² (ASTM C-672) 50 cycles 0.080				
	Initial Set, Minutes (ASTM C-266) 40-90				
	Final Set, Minutes (ASTM C-266) 60-120				
	Abrasion Resistance, Inches of Wear at 1 hr. (ASTM C-779) 28 days 0.026				
	*Independent certificates available upon request.				
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Coverage	Approximately 0.42 cu. ft. When extended with 25 lbs. of 3/8 in. gravel yield is approximately 0.58 cu. ft.
Packaging	50 lb. multi-wall bag.
How to Use	, , , , , , , , , , , , , , , , , , ,
Surface Preparation	Surface must be clean and sound. Remove all deteriorated concrete, dirt, oil, grease, and other bond-inhibiting materials from the area to be repaired. Be sure repair area is not less than 1/4 in. deep. Preparation work should be done by appropriate means. Obtain an exposed aggregate surface with a minimum surface profile of ± 1/8 in. (CSP-6) on clean, sound concrete. To ensure optimum repair results, the effectiveness of decontamination and preparation should be assessed by a pull-off test. Saw cutting of edges is preferred and a dovetail is recommended. Saturate surface to be repaired with clean water. Substrate should be saturated surface dry (SSD) prior to application.
Priming	For priming of reinforcing steel use Sika [®] Armatec [®] 110 EpoCem (consult Technical Data Sheet). Concrete Substrate: Prime the prepared substrate with a scrub coat of SikaQuick [®] 1000 prior to placement of the mortar. The repair mortar has to be applied into the wet scrub coat before it dries.
Mixing	 Mechanically mix in an appropriately sized mortar mixer. Wet down all tools and mixer to be used. With water: Start with 4.5 pints of water added to the mixing vessel. Add 1 bag of SikaQuick[®] 1000 while continuing to mix. Add up to another 1/2 pint of water to achieve desired consistency. Do not over-water. With Latex R: Pour 4.5 pints of SikaLatex[®] R into the mixing container. Slowly add powder, mix and adjust as above. With diluted Latex R: SikaLatex[®] R may be diluted up to 5:1 (water: SikaLatex[®] R) for projects requiring minimal polymer modification. Pour 4.5 pints of the mixture into the mixing container. Slowly add powder, mix and adjust as above. For applications greater than 1 in. in depth, add 3/8 in. coarse aggregate. The aggregate must be non-reactive (reference ASTM C-1260, C-227 and C-289), clean, well graded, saturated surface dry, have low absorption and high density, and comply with ASTM C-33 size number 8 per Table 2. Note: Variances in aggregate may result in different strengths. The addition rate is 25 lbs. of aggregate per bag of SikaQuick[®]1000. (25 lbs. of 3/8 in. aggregate is approximately 2.0 gallons by loose volume of aggregate). Do not exceed a slump of 7 in. This may cause excessive bleeding and retardation and will reduce the strength and performance of the material.
Application	The prepared mortar must be scrubbed into substrate. Be sure to fill all pores and voids. Force material against edge of repair, working toward center. After filling repair, screed off excess. Allow concrete to set to desired stiffness, then finish. If a smoother finish is desired, a magnesium float should be used. Mixing, placing, and finishing should not exceed 30 minutes maximum. To control setting times, cold water should be used in hot weather and hot water used in cold weather.
Tooling & Finishing	As per ACI recommendations for portland cement concrete, curing is required. Moist cure with wet burlap and polyethylene, a fine mist of water or a curing compound meeting ASTM C-309. Moist cure should commence immediately after finishing. If necessary, protect newly applied material from rain. To prevent from freezing, cover with insulating material.
Limitations	 Minimum ambient and surface temperatures 45°F and rising. Minimum application thickness 1/4 in. as a mortar and 1 in. extended with aggregate. Maximum application thickness 1 in. as a mortar and 6 in. extended with aggregate. Do not feather edge. Do not exceed 7 in. slump when extended. Use only potable water. Variations in aggregates may produce differences in strengths from the typical values stated in Sika's Technical Data. As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur® Hi-Mod 32. Do not use Sika® Armatec® 110 EpoCem as a bonding agent with SikaQuick® 1000.

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SikaQuick[®] 2500 Very rapid hardening, repair mortar

Description	SikaQuick [®] 2500 is a 1-component, very rapid hardening, early strength gaining, cementitious, patching material for concrete.					
Where to Use	Use on grade, above, and below grade on concrete.					
	 Highway overlays and repairs. Standard constraints in the standard constraints of the standard constandard constrain					
	 Structural repair material for concrete roadways, parking structures, bridges, dams and ramps. Full depth patching repairs. 					
	 Economical patching material for horizontal repairs of concrete and mortar. 					
Advantages	Very rapid hardening as defined by ASTM C-928.					
	Epoxy coatings can be applied as early as 4 hrs. On site testing is recommended for verification. Please consult coating a manufacture for an applied as early as 4 hrs.					
	ings manufacturer for recommendations. Freeze/thaw resistant.					
	Easy to use, labor-saving material.					
	Not gypsum-based.					
	 High early strength. Fast-setting. 					
	 Open to foot traffic in 45 minutes; to vehicle traffic in 1 hour (at 73°F). 					
	Easily applied to clean, sound substrate.					
	Not a vapor barrier.					
	Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.) (Water/powder = 0.12)					
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.					
	Shelf Life1 year in original, unopened bag.					
	Storage Conditions Store dry at 40°-95°F (4°-35°C). For best results, condition material to 65°- 75°F before using.					
	Color Concrete gray.					
	Mixing RatioApproximately 5 - 5.5 pints of liquid per 50 lb. bag.					
	Application Life Approximately 15 minutes after adding powder to the water.					
	Compressive Strength, psi Mortar - ASTM C-109					
	1 hour **2,500 psi (17.2 MPa) 2 hours **4,000 psi (27.6 MPa)					
	1 day **5,700 psi (39.3 MPa)					
	7 days 7,500 psi (51.7 MPa)					
	28 days **8,500 psi (58.6 MPa) Flexural Strength, psi (ASTM C-78)					
	1 day 800 psi (5.5 MPa)					
	7 days 1,000 psi (6.9 MPa)					
	28 days **1,100 psi (7.6 MPa)					
	Splitting Tensile Strength, psi (ASTM C-496) 1 day 300 psi (2.0 MPa)					
	7 days 500 psi (2.0 MFa)					
	28 days 600 psi (4.1 MPa)					
	Bond Strength, psi (ASTM C-882) modified					
	1 day **1,800 psi (12.4 MPa) 7 days 2,500 psi (17.2 MPa)					
	28 days **2,700 psi (21.4 MPa)					
	Direct Tensile Bond, psi (ACI 503) 28 days 300 psi (substrate failure)					
	Drying Shrinkage, % (ASTM C-596) 28 days **0.06					
	Modulus of Elasticity, psi (ASTM C-469) 28 days 4.6 x 10 ⁶					
	Chloride Permeability, Coulombs (ASTM C-1202)28 days< 500					
	Freeze/Thaw Resistance, % (ASTM C-666)28 days **98%					
	Scaling Resistance, Ib./ft² (ASTM C-672) 50 cycles 0.080					
	Initial Set, minutes (ASTM C-266) 12-24					
	Final Set, minutes (ASTM C-266) 20-40 Abrasion Resistance, inches of wear at 1 br. (ASTM C-779) 28 days 0.026					
	Abrasion Resistance, inches of wear at 1 hr. (ASTM C-779) 28 days 0.026					
	*Independent certificates available upon request.					



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Coverage	Approximately 0.43 cu. ft. When extended with 25-30 lbs. of 3/8 in. gravel yield is approximately 0.60 cu. ft.
Packaging	50-lb. multi-wall bag.
How to Use	
Surface Preparation	Surface must be clean and sound. Remove all deteriorated concrete, dirt, oil, grease, and other bond-inhibiting materials from the area to be repaired. Be sure repair area is not less than 1/4 in. deep. Preparation work should be done by appropriate means. Obtain an exposed aggregate surface with a minimum surface profile of ± 1/8 in. (CSP-6) on clean, sound concrete. To ensure optimum repair results, the effectiveness of decontamination and preparation should be assessed by a pull-off test. Saw cutting of edges is recommended. Saturate surface to be repaired with clean water. Substrate should be saturated surface dry (SSD) prior to application.
Priming	For priming of reinforcing steel use Sika [®] Armatec [®] 110 EpoCem (consult Technical Data Sheet). Concrete Substrate: Prime the prepared substrate with a scrub coat of SikaQuick 2500 prior to placement of the mortar. The repair mortar has to be applied into the wet scrub coat before it dries.
Mixing	Mechanically mix in an appropriately sized mortar mixer. Wet down all tools and mixer to be used.
-	With water: Start with 5 pints of water added to the mixing vessel. Add 1 bag of SikaQuick [®] 2500 while continuing to mix. Add up to another 1/2 pint of water to achieve desired consistency. Do not over water.
	With Latex R: Pour 5 pints of SikaLatex® R into the mixing container. Slowly add powder, mix and adjust as above.
	With diluted Latex R: SikaLatex [®] R may be diluted up to 5:1 (water: SikaLatex [®] R) for projects requiring minimal polymer modification. Pour 5 pints of the mixture into the mixing container. Slowly add powder, mix and adjust as above. For applications greater than 1 in. in depth, add 3/8 in. coarse aggregate. The aggregate must be non-reactive (reference ASTM C-1260, C-227 and C-289), clean, well graded, saturated surface dry, have low absorption and high density, and comply with ASTM C-33 size number 8 per Table 2.
	Note: Variances in aggregate may result in different strengths. The addition rate is 25-30 lbs. of aggregate per bag of SikaQuick [®] 2500. (25-30 lbs. of 3/8 in. aggregate is approximately 2.0 - 2.4 gallons by loose volume of aggregate). Do not exceed a slump of 7 in. This may cause excessive bleeding and retardation and will reduce the strength and performance of the material.
Application	The prepared mortar must be scrubbed into substrate. Be sure to fill all pores and voids. Force material against edge of repair, working toward center. After filling repair, screed off excess. Allow concrete to set to desired stiffness, then finish. If a smoother finish is desired, a magnesium float should be used. Mixing, placing, and finishing should not exceed 15 minutes maximum. To control setting times, cold water should be used in hot weather and hot water used in cold weather.
Tooling & Finishing	As per ACI recommendations for portland cement concrete, curing is required. Moist cure with wet burlap and polyethylene, a fine mist of water or a curing compound meeting ASTM C-309. Moist cure should commence immediately after finishing. If necessary, protect newly applied material from rain. To prevent from freezing, cover with insulating material.
Limitations	 Minimum ambient and surface temperatures 45°F and rising. Minimum application thickness 1/4 in. as a mortar and 1 in. extended with aggregate. Maximum application thickness 1 in. as a mortar and 6 in. extended with aggregate. Do not feather edge. Do not exceed 7 in. slump when extended. Use only potable water. Variations in aggregates may produce differences in strengths from the typical values stated in Sika's Technical Data. As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur[®] Hi-Mod 32. Do not use Sika[®] Armatec[®] 110 EpoCem as a bonding agent with SikaQuick[®] 2500. When extended : Minimum application is 1 inches, Max application 6 inches.

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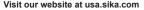
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A130

Product Data Sheet Edition 1.29.2015 SikaQuick® VOH

SikaQuick® VOH

Fast Setting, one component, cementitious vertical and overhead repair mortar with superior high build properties

Description	SikaQuick [®] VOH is a fast settir overhead applications using sp		•	to-use repair m	ortar for vertical and
Where to Use	 Fast repairs to overhead and below grade. As a repair material for buildi As a fast setting repair material 	ing facades, p	arking structu	ures, industrial	
Advantages	 Minimal time required betwee Fast finishing time Time/labor-saving material; a Easy to use; just add water High bond strength ensures High early and ultimate strent Increased freeze/thaw durabtes Suitable for exterior and inter Not a vapor barrier Overhead thickness up to 2" Fiber reinforced and polymeted Contains corrosion inhibitor 	application up excellent adhe ogth ility and resist rior application	esion tance to deici		ces in one layer
Coverage	~.44 cu. ft.				
Packaging	44 lb bag				
	Storage Conditions:Store dry aProduct Conditioning:Condition rColor:Concrete gMixing Ratio:6 - 6.5 pintDensity (Wet mix):~ 125 lbs. /Application Time:ApproximaFinishing Time:20-30 minuLift Height:Max: 3"Time Between Lifts:After final sSplitting Tensile Strength, psi (ASTM C-496)Compressive Strength, psi (ASTM C-109):	ARIATIONS DEPEN ACTUAL SITE CON 'S/UNIT. n original, unoper t 40°-95°F (4°-35 naterial to 65°-75 ray. s/unit 'cu. ft. tely 20 minutes. ites Min: 1/8"	IDING UPON MIXIN DITIONS AND CUP ned bags. (°C). (°F before using. (°F before using. 200 1 day >3000	7 days 250 7 days 250 7 days >4500	28 days 500 28 days 5500
	Flexural Strength, psi (ASTM C-293):		1 day 400	7 days 600	28 days 1000
	Bond Strength*, psi (ASTM C-882 modified) Modulus of Elasticity, psi (ASTM C-469)	:	1 day 1000	7 days 1600 7 days >2.2 x 10^6	28 days 2000
	Rapid Chloride Permeability (ASTM C1202)		Low Range		
	Bond Strength, psi - Direct Tensile (IRCI No. Shrinkage (50% R.H.) (ASTM C-157; ICRI pro Initial Set, min. (ASTM C-266)		Substrate fa <.05% 20-25	ailure >250	

Final Set, min. (ASTM C-266) *Mortar scrubbed into substrate

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30-40

How to Use Surface Preparation	Concrete/Mortar: Remove all deteriorated concrete, dirt, oil, grease, and all bond-inhibiting materials from surface. Preparation work should be done by high pressure water blast, scab bler or other appropriate mechanical means to obtain an exposed aggregate surface profile of +- 1/16 in. (CSP-5). After preparation, substrate strength should be verified prior to patch placement. Substrate should be saturated surface dry (SSD) with no standing water during application.
	Reinforcing Steel: Steel reinforcement should be thoroughly prepared by mechanical cleaning to remove all traces of rust. Where corrosion has occurred due to the presence of chlorides the steel should be high pressure washed with clean water after mechanical cleaning.
Priming:	Reinforcement Steel: For priming of reinforcement steel use Sika [®] Armatec [®] 110 EpoCen (Consult Technical Data Sheet).
	Concrete Substrate: A scrub coat of SikaQuick [®] VOH should be applied prior to placement of mortar. The repair mortar has to be applied into the wet scrub coat before it dries. The use of Sika [®] Armatec [®] 110 EpoCem as a bonding agent for concrete is not recommended.
Mixing	Wet down all tools and mixer to be used. Mix mechanically with a low-speed drill (400 - 600 rpm) and mixing paddle or mortar mixer. Mix to a uniform consistency, maximum 3 minutes Manual mixing can be tolerated only for less than a full unit. Thorough mixing and prope proportioning of the powder and liquid is necessary. Inaccurate proportioning of the powder to liquid will result in a finished product that may not conform with stated properties.
	With water: Start mixing with 6 pints of water per 44 lb. bag. Adjust the water dosage by a maximum amount of +/- 1/2 pint, if necessary, to achieve the desired consistency. Do no over-water. Over-watering may result in difficulty handling and/or not meeting stated property values.
	With Latex R: Start mixing with 6 pints of SikaLatex [®] R per 44 lb. bag. Adjust the SikaLatex [®] F dosage by a maximum amount of +/- 1/2 pint, if necessary, to achieve the desired consistency
Application	The mixed SikaQuick [®] VOH must be worked well into the prepared substrate, filling all pores and voids. Compact well. Force material against edge of repair working towards the center Thoroughly compact the mortar around exposed reinforcement. After filling repair, consolidate then screed. Finish with steel, magnesium, wood, plastic floats, or damp sponges, depending on the desired surface texture. Where multiple lifts are required, score top surface on each lift to produce a roughened substrate for next lift. Allow preceding lift to harden before applying fresh material. Saturate surface of the lift with clean water. If previous layers are over 6 hours old, mechanically prepare the substrate and dampen.
Tooling and Finishing	As per ACI recommendations for portland cement concrete, curing is required. Moist cure with wet burlap and polyethylene, a fine mist of water or a water based* compatible curing compound Curing compounds adversely affect the adhesion of following lifts of mortar, leveling mortar o protective coatings. Moist curing should commence immediately after finishing. Protect freshly applied mortar from direct sunlight, wind, rain and frost. * Pretesting of curing compound is recommended. Cured product must be removed mechanically.
Over Painting	Acrylic waterbased systems - 4 hrs Epoxy/PU based systems - 6 hrs Compatibility and adhesion testing is always recommended.
Limitations	 Application thickness: Minimum: With water: 1/8 inch (3 mm). Maximum in one lift: 3 inches (75 mm) vertical, 2 inches (51 mm) overhead. Minimum ambient and surface temperatures 45°F (7°C) and rising at time of application. To control setting times, cold water should be used in hot weather and hot water used in cold weather. Do not use solvent based curing compounds. As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur® Hi-Mod 32. Remixing product after it begins to set is prohibited. Do not use Sika® Armatec® 110 EpoCem as a bonding agent with SikaQuick® VOH.



Construction

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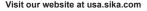
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SikaQuick[®] Smooth Finish

Light Weight Mortar for Concrete Reprofiling and Patching

Description		s a fast setting, one component, durable, sand free mortar for repairing and reprofiling vertical aces to acheive a smooth finish.
Where to Use	 Tilt up panels Pre Cast Concrete Cast in Place Concrete Concrete Block Masonry 	
Advantages	 Minimal time required b Ultra smooth consistence Fast finishing time, san Time/labor-saving mate Easy to use; just add wa High bond strength ensi Suitable for interior and Precast grey color 	cy; Easy to apply ded and painted same day erial; application up to 1/2" inch on vertical surfaces in one layer ater ures excellent adhesion
Coverage	50 lb bag yields approximat	ely 115 sq.ft. at 1/16"
Packaging	50 lb (22.7 kg) bag	
	RESULTS MAY DIFFER BASED UPO	 and curing conditions @ 73°F (23°C) and 50% R.H.) DN STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, ETHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. One year in original, unopened bags. Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using. Concrete gray 8.5-9.5 quarts/unit (up to 2:1 POWDER:WATER) Approximately 30 minutes. 1 hour Max: 1/2" After final set STM C-109), psi 24 hours 1000 psi
	Bond Strength, psi - Dire	28 days >2000 psi ct Tensile (IRCI No. 210.3): Substrate failure >250



onstructio

How to Use	
Surface Preparation	Concrete/Mortar: Remove all deteriorated concrete, dirt, oil, grease, and all bond-inhibiting materials from surface. After preparation, substrate strength should be verified prior to patch placement. Substrate should be dry or saturated surface dry (SSD) with no standing water during application.
Mixing	Wet down all tools and mixer to be used. Mix mechanically with a low-speed drill (400 - 600 rpm) and mixing paddle or by hand. Mix to a uniform consistency, maximum 3 minutes. Manual mixing can be tolerated only for less than a full unit. Thorough mixing and proper proportioning of the powder and liquid is necessary. Inaccurate proportioning of the powder to liquid will result in a finished product that may not conform with stated properties.
	Start mixing with 8 - 9 quarts of water per 50 lb. bag. DO NOT EXCEED 9 qts. Adjust the water dosage, if necessary, to achieve the desired consistency. DO NOT OVER WATER. Over-watering may result in difficulty handling and/or not meet- ing stated property values. Do not retemper. Clean bucket and mixing equipment in between batches.
Application	SikaQuick® Smooth Finish should be applied in one pass in thicknesses ranging from a true feather edge to 1/2" in depth. Typical working time of the product is 1 hour at 73 deg F. Working time will vary depending on application temperature. In high temperature work environments, cold water should be used to to increase working time. Over Paint: Can be overcoated same day.
Tooling and Finishing	Once material is in place, as the material hardens, use a trowel to shave or cut the excess material to the desired shape. Material can be sanded and painted the same day.
Limitations	 Not to be applied in lifts over 1/2". If multiple lifts are required, score top surface on each lift to produce a roughened substrate for next lift. Allow preceding lift to harden before applying fresh material. Saturate surface of the lift with clean water. Do not apply on gypsum substrates Minimum ambient and surface temperatures 45°F (7°C) and rising at time of application. To control setting times, cold water should be used in hot weather and hot water used in cold weather. Do not use solvent based curing compounds. As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur® Hi-Mod 32. Remixing product after it begins to set is prohibited. Do not use Sika® Armatec® 110 EpoCem as a bonding agent with SikaQuick® Smooth Finish.

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Product Data Sheet Edition 8.7.14 Sikacrete® 321 FS

Sikacrete[®] 321 FS

One-component, cementitious, pourable, rapid hardening concrete mix

Description	Sikacrete [®] 321 FS is a one-component, portland-cement concrete containing factory blende coarse aggregate designed for quick turnaround patching and overlay needs.
Where to Use	 As a structural repair material for bridges, parking facilities, industrial plants and walkways On horizontal, vertical and overhead surfaces (formed) On grade, above, and below grade on concrete Full depth repairs Filler for voids and cavities
Advantages	 Complies with ASTM C-928 specifications for very rapid and rapid hardening mortars Very rapid setting structures can be opened to vehicular traffic in 2 hours Non-gypsum based with volume stability Compatible with coefficient of thermal expansion of concrete Increased resistance to deicing salts Easily applied to clean, sound substrate Not a vapor barrier Excellent resistance to freeze/thaw with outstanding durability Pre-packaged coarse aggregate: Eliminates need to extend material in the field; Eliminates the risk of reactive aggregate Formulated to compensate for shrinkage
Coverage	Approximately 0.50 ft. ³ /unit. Actual yield on site may vary due to surface profile, waste, and other factors.
Packaging	65 lb. multi-wall bag; bulk bag available on request

Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life Storage Conditions	1 year in original, u Store dry at 40°-95° before using.		kaging. Condition material to 65°-75°F		
Mixing Ratio Mix with clean pota		ble water at rate of up to 5 pints per bag.			
Application Time	Approximately 30 m Initial Slump 7-9"				
	Slump at 15 minute	s >5-7″			
Initial Set	40-50 minutes				
Final Set 50-60 minutes					
Flexural Strength (AS	TM C-78)	28 days	700 psi (5.0 MPa)		
Splitting Tensile Stren	ngth (ASTM C-496)	1 day 7 days	400 psi (2.8 MPa) 600 psi (4.1 MPa)		
Bond Strength* (ASTM C-882 modified)		1 day 7 days	2,500 psi (17.2 MPa) 3,000 psi (20.7 MPa)		
Direct Tensile Bond (A	ACI 503)	7 days 7 days	>250 psi		
Compressive Strengt	h (ASTM C-39)	2 hour	2,500 psi (17.2 MPa)		



¢

				1 day 7 days 28 days	5,000 psi (20.7 M 5,000 psi (34.5 M 6,000 psi (41.4 M 7,500 psi (51.7 M	IPa) IPa)
	Sh	nrinkage (ASTM C-157)		<0.06%	
	Fr	eeze Thaw Factor (AS	TM C-666)	300 cycles	>90%	
		nloride ion permeabili	-	28 days	<1,500 Could	ombs
	* M	ortar scrubbed into substrate.		-		
How to Use						
Surface Prepara	surface pressu surface should Reinfo	ete: Remove all deteriora e. Be sure repair area is n re water blast, scabbler, or e with a minimum surface p be saturated surface dry (rcing Steel: Steel reinforce es of rust. Where corrosic	ot less than 1 in. in d other appropriate me profile of ±1/8 in. (CSP SSD) with no standing ement should be thorou	lepth. Preparat chanical mean -7). Saturate s g water during ughly prepared	tion work should be d is to obtain an expose urface with clean wate application. I by mechanical cleanii	lone by high ed aggregate er. Substrate ng to remove
		essure washed with clean				
Mixing	a unifo paddle	5 pints of water in mixing of rm consistency, maximum or in appropriate-size mo eve the desired slump.	3 minutes. Mechanica	ally mix with a	low-speed drill (400-6	00 rpm) and
Application	is achie	and pour applications: Pr eved. To accomplish this, r be employed such as vibr	naterial should be scru	ubbed into the	substrate or other sui	
Tooling & Finish	hing Finish	as desired				
	wet buing con coating direct s	: As per ACI recommendar rlap and polyethylene, a fii npounds adversely affect t is. Moist curing should con sunlight, wind, rain and fro hours after initial set. A Hu	ne mist of water or a v he adhesion of followi imence immediately a st. For best results, ke	water based* c ing layers of m fter finishing. F eep surface mo	compatible curing com ortar, leveling mortar Protect newly applied r oist with clean, cool p	pound. Cui or protectiv naterial fror
	*Pretest	ing of curing compound is rec	ommended.			
Removal	Cured	product can only be remov	ved mechanically.			
Limitations	 Minii Elev Rate Bono be u 	ication thickness: Minimur mum ambient and surface ated temperatures will dec of strength gain will be re ding agents like Armatec [®] 1 sed. If bonding agents are u utting Sikacrete [®] 321 FS in s	temperatures 40°F (4 crease working time ar duced at colder temper 10 and others, which cr used, follow cure times	°C) and rising nd slump. eratures. On si ure at a slower for the bonding	at time of application. ite testing is recomme rate than 321 FS, show g agents used as a guid	nded. uld not de prior
	INSTRUCTIONS (SHEET WHICH A PARTMENT AT 80 TO READ AND F(RENT PRODUCT	USE OF ANY SIKA PRODU DN THE PRODUCT'S MOST RE AVAILABLE ONLINE AT 0.933.7452 NOTHING CONT DLLOW THE WARNINGS AN DATA SHEET, PRODUCT LA YCLOSED. KEEP OUT OF REACHOF CF	CURRENT PRODUCT I HTTP://USA.SIKA.COM. AINED IN ANY SIKA MA D INSTRUCTIONS FOR BEL AND SAFETY DAT.	DATA SHEET, P / OR BY CALLII TERIALS RELIE EACH SIKA PR A SHEET PRIOF	RODUCT LABEL AND NG SIKA'S TECHNICAL EVES THE USER OF THI RODUCT AS SET FORTI R TO PRODUCT USE.	SAFETY DA . SERVICE I E OBLIGATI H IN THE CU
	For further information actual Safety Data Sh	on and advice regarding transpo eets containing physical, ecolog duct. In case of emergency, call (ortation, handling, storage a	and disposal of cl r safety related dat	hemical products, users sl ta. Read the current actual s	hould refer to
	Data Sheet, product I ment at 800-933-7452	ny Sika product, the user must al abel and Safety Data Sheet whici . Nothing contained in any Sika n t as set forth in the current Prod	n are available online at http naterials relieves the user of	o://usa.sika.com/ o f the obligation to i	or by calling Sika's Technica read and follow the warning	al Service Dep
	the current Product D Buyer's sole remedy s EXPRESS OR IMPLIE SHALL NOT BE LIABI THE USE OF THIS PRO SALE OF SIKA PRO CALLING 201-933-88		in shelf life. User determine ice or replacement of produ Y WARRANTY OF MERCHA FOR SPECIAL OR CONSEQU E ON ANY PATENT OR ANY (es suitability of pro ict exclusive of lab NTABILITY OR FIT JENTIAL DAMAGE OTHER INTELLEC S OF SALE AVAI	oduct for intended use and a tor or cost of labor. NO OTHI NESS FOR A PARTICULAR ES. SIKA SHALL NOT BE RE TUAL PROPERTY RIGHTS H LABLE AT HTTP://USA.SI	ASSUMES ALL RE ER WARRANT PURPOSE. S SPONSIBLE F IELD BY OTHE KA.COM/ OR
ka ®	Visit our website at Regional Informatic Sika Corporatic 201 Polito Aven Lyndhurst, NJ 0 Phone: 800-933 Fax: 201-933-62	on and Sales Centers. For the le Sika Canada Inc 601 Delmar Avei 7071 – 7452 Quebec H9R 4A	c. Sika Mexic nue Carretera I Fracc. Indu 9 Corregidor -2610 C.P. 76920	a sales office, cor cana S.A. de C.V. Libre Celaya Km. Jstrial Balvanera a, Queretaro 442 2385800	- ABSIA	VIDE

3 hour

3,000 psi (20.7 MPa)

A160

Product Data Sheet Edition 7.14.2014 Sikacrete 211

Sikacrete[®] 211

One-component, cementitious, pumpable and pourable concrete mix

Description	Sikacrete 211 is a 1-component, portland-cement concrete containing factory blended coarse aggregate.
Where to Use	 Full depth repairs. On grade, above, and below grade on concrete. On horizontal, vertical and overhead surfaces. As a structural repair material for parking facilities, industrial plants, walkways, bridges, tunnels, dams and balconies. Filler for voids and cavities.
Advantages	 Pre-packaged coarse aggregate: Eliminates need to extend material in the field; Eliminates the risk of reactive aggregate. High bond strength. Compatible with coefficient of thermal expansion of concrete. Increased resistance to deicing salts. Simple-to-use labor-saving system. Easily mixed. Good freeze/thaw resistance. Easily applied to clean, sound substrate. Not a vapor barrier. Not flammable
Coverage	Approximately 0.65 ft. ³ /unit
Packaging	80 lb. multi-wall bag.
	Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Shelf Life 1 year in original, unopened packaging. Storage Conditions Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using. Color Concrete gray when mixed. Mixing Ratio Mix with clean potable water at rate of up to 1 gallon per bag. Start with 4/5 gallon and mix to consistency required with remainder of gallon. Application Time Initial Slump 5"-7"; Slump at 30 minutes >4" Flexural Strength (ASTM C-78) 28 days 750 psi (3.4 MPa) Bond Strength* (ASTM C-39) 1 day 2,000 psi (13.8 MPa) 1 day 2,000 psi (31.0 MPa) 28 days 1,500 psi (15.2 MPa) 28 days 5,000 psi (37.9 MPa) 28 days 5,000 psi (37.9 MPa) Shrinkage (ASTM C-157) 28 days <0.05%
	Chloride ion permeability (Astm C-1202) 28 days <1,500 Coloumbs
	* Mortar scrubbed into substrate.



PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800-933-7452. NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTION FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET. PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY, FOR PROFESSIONAL USE ONLY.

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on SixA warrants this product for one year from date of instantion to be ree from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800. 1-800-933-SIKA NATIONWIDE

Regional Information and Sales Centers. For the location of your nearest Sika sales office, contact your regional center

Visit our website at usa.sika.com

Sika Corporation 201 Polito Avenue Lyndhurst, NJ 07071 Phone: 800-933-7452 Fax: 201-933-6225

Sika Canada inc. 601 Delmar Avenue Pointe Claire Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792

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RESPONSIBLE CARE ISO 9001 RC 14001



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Product Data Sheet Edition 7.14.2014 Sikacrete 211 SCC Plus



Sikacrete[®] 211 SCC Plus

One-component, cementitious, polymer-modified, self consolidating concrete mix with an integral migrating corrosion inhibitor

Description		This self consolidating	g concrete ba	g concrete containing factor ag is silica fume and polyme
Where to Use	 Full depth repairs. On grade, above and bel On horizontal surfaces. Vertical and overhead su As a structural repair mattunnels, dams, and balco Filler for voids and cavitie 	rfaces when formed an terial for parking facilitien parking facilitien parking facilitien pries.	nd pumped o	
Advantages	-nates the risk of reactive	osion Inhibitor. gregate. Eliminates the aggregate.	need to exte	stics. end material in the field. Elim isolidation without vibrating.
Coverage	Approximately 0.50 ft.3/bag	. Actual results on site	may vary.	
Packaging	65 lb. bag.			
	TEMPERATURE, APPLICATIO Shelf Life Storage Conditions Initial Spread	м метнорs, тезт метнорs, 1 year in original, u	ACTUAL SITE CO UNOPENED PA °F (4°-35°C). C) before us	Condition material to
	Spread at 30 min. Application Time Flexural Strength (A	60 minutes	1 day 7 days 28 days	500 psi (3.4 MPa) 750 psi (5.2 MPa) 1,000 psi (6.9 MPa)
	Application Time	60 minutes STM C-78)	7 days	750 psi (5.2 MPa)
	Application Time Flexural Strength (A Splitting Tensile Stre	60 minutes STM C-78)	7 days 28 days 7 days 28 days	750 psi (5.2 MPa) 1,000 psi (6.9 MPa) 750 psi (5.1 MPa)
	Application Time Flexural Strength (A Splitting Tensile Stre Slant Shear Bond St Direct Tensile Bond	60 minutes STM C-78) ength (ASTM C-496) trength* (ASTM C-882 (ACI 503)	7 days 28 days 7 days 28 days 28 days modified 1 day 7 days	750 psi (5.2 MPa) 1,000 psi (6.9 MPa) 750 psi (5.1 MPa) 1,000 psi (6.9 MPa) 1,000 psi (6.9 MPa) 1,500 psi (10.3 MPa)
	Application Time Flexural Strength (A Splitting Tensile Stre Slant Shear Bond St	60 minutes STM C-78) ength (ASTM C-496) trength* (ASTM C-882 (ACI 503)	7 days 28 days 7 days 28 days 28 days 28 days 1 day 1 day 1 day	750 psi (5.2 MPa) 1,000 psi (6.9 MPa) 750 psi (5.1 MPa) 1,000 psi (6.9 MPa) 1,000 psi (6.9 MPa) 1,500 psi (10.3 MPa) 2,500 psi (17.2 MPa) 250 psi (1.7 MPa)

How to Use Surface Preparation Mixing Application Tooling and Finishing Limitations	Remove all des sulfate Length of *Mortar serv *Mortar serv by high pressu exposed aggres surface. Be su by high pressu exposed aggres surface with cl water during a Reinforcing S to remove all th the steel shou priming and pr Data Sheet). Start mixing w over water as mix. Mix to a u drill (400-600 r Pre-wet surface strate is achievy suitable means sure. Vibrate for pumping until a Form should n when appropri- ng As per ACI rec with wet burlage compound. Cu leveling mortan finishing. Prote *Pretesting of curing of	re repair area is not le ure water blast, scabble egate surface with a mean water. Substrate se pplication. teel: Steel reinforcement races of rust. Where controls and the high-pressure were rotection of reinforcing with 5.5 pints of water. excess water will cause uniform consistency, means repm) and paddle or in a set or SSD (Saturated Song) with 5.5 pists of water. excess water will cause inform consistency, means repm) and paddle or in a set or SSD (Saturated Song) with 5.5 pists of water. the to SSD (Saturated Song) repm while pouring or period to the set of the se	STM C-666) C-672) C-1012) C-10	28 days <650 Coloumbs 300 cycles > 99% 50 cycles 2 0.006 , and all bond-inhibiting materials from depth. Preparation work should be done oropriate mechanical means to obtain an e profile of ±1/8 in. (CSP-7-8). Saturate ated surface dry (SSD) with no standing proughly prepared by mechanical cleaning courred due to the presence of chlorides, an water after mechanical cleaning. For Armatec 110 EpoCem (consult Technical 0.5 pint can be added if needed. Do not be Add Sikacrete 211 while continuing to utes. Mechanically mix with a low-speed e mortar mixer or concrete mixer. sure good intimate contact with the sub- ld be scrubbed into the substrate or other on of the material or pumping under pres- with a variable pressure pump. Continue ressure is evident then STOP pumping. teady flow is evident, and forms stripped oncrete, curing is required. Moist cure er or a water based* compatible curing adhesion of following layers of mortar, should commence immediately after t sunlight, wind, rain and frost.
Surface Preparation Mixing Application	surface. Be su by high pressu exposed aggre surface with cl water during a Reinforcing S to remove all th the steel shou priming and pr Data Sheet). Start mixing w over water as mix. Mix to a u drill (400-600 r Pre-wet surfac strate is achiev suitable means sure. Vibrate fo pumping until Form should n when appropri- ing As per ACI rec with wet burlag compound. Cu leveling mortar finishing. Prote *Pretesting of curing of	re repair area is not le are water blast, scabble egate surface with a mean water. Substrate se pplication. teel: Steel reinforcement races of rust. Where c Id be high-pressure were rotection of reinforcing with 5.5 pints of water. excess water will cau uniform consistency, mean pm) and paddle or in a se to SSD(Saturated Se yed. To accomplish this is should be employed form while pouring or p a 3 to 5 psi increase i tot deflect. Vent to be cau ate. commendations for por p and polyethylene, a furing compounds advert r or protective coatings excent means and padel materies. The second polyethylene materies and polyethylene materies and polyethylene materies. The second polyethylene materies and polyethylene mater	ess than 1 in. in o ler, or other app ninimum surface should be satura ent should be tho corrosion has oc /ashed with clear is steel use Sika / An additional 0 use segregation naximum 3 minu appropriate-size surface Dry). En- s, material shoul such as vibratio umping. Pump v in normal line p capped when st rtland cement co fine mist of wate s. Moist curing s	depth. Preparation work should be done propriate mechanical means to obtain an e profile of ±1/8 in. (CSP-7-8). Saturate ated surface dry (SSD) with no standing proughly prepared by mechanical cleaning curred due to the presence of chlorides, an water after mechanical cleaning. For Armatec 110 EpoCem (consult Technical 0.5 pint can be added if needed. Do not a. Add Sikacrete 211 while continuing to utes. Mechanically mix with a low-speed e mortar mixer or concrete mixer. Isure good intimate contact with the sub- ld be scrubbed into the substrate or other on of the material or pumping under pres- with a variable pressure pump. Continue ressure is evident then STOP pumping. teady flow is evident, and forms stripped oncrete, curing is required. Moist cure er or a water based* compatible curing adhesion of following layers of mortar, should commence immediately after
Surface Preparation Mixing Application Tooling and Finishing	surface. Be su by high pressu exposed aggre surface with cl water during a Reinforcing S to remove all th the steel shou priming and pr Data Sheet). Start mixing w over water as mix. Mix to a u drill (400-600 r Pre-wet surfac strate is achiev suitable means sure. Vibrate fo pumping until Form should n when appropri- ing As per ACI rec with wet burlag compound. Cu leveling mortar finishing. Prote *Pretesting of curing of	re repair area is not le are water blast, scabble egate surface with a mean water. Substrate se pplication. teel: Steel reinforcement races of rust. Where c Id be high-pressure were rotection of reinforcing with 5.5 pints of water. excess water will cau uniform consistency, mean pm) and paddle or in a se to SSD(Saturated Se yed. To accomplish this is should be employed form while pouring or p a 3 to 5 psi increase i tot deflect. Vent to be cau ate. commendations for por p and polyethylene, a furing compounds advert r or protective coatings excent means and padel materies. The second polyethylene materies and polyethylene materies and polyethylene materies. The second polyethylene materies and polyethylene mater	ess than 1 in. in o ler, or other app ninimum surface should be satura ent should be tho corrosion has oc /ashed with clear is steel use Sika / An additional 0 use segregation naximum 3 minu appropriate-size surface Dry). En- s, material shoul such as vibratio umping. Pump v in normal line p capped when st rtland cement co fine mist of wate s. Moist curing s	depth. Preparation work should be done propriate mechanical means to obtain an e profile of ±1/8 in. (CSP-7-8). Saturate ated surface dry (SSD) with no standing proughly prepared by mechanical cleaning curred due to the presence of chlorides, an water after mechanical cleaning. For Armatec 110 EpoCem (consult Technical 0.5 pint can be added if needed. Do not a. Add Sikacrete 211 while continuing to utes. Mechanically mix with a low-speed e mortar mixer or concrete mixer. Isure good intimate contact with the sub- ld be scrubbed into the substrate or other on of the material or pumping under pres- with a variable pressure pump. Continue ressure is evident then STOP pumping. teady flow is evident, and forms stripped oncrete, curing is required. Moist cure er or a water based* compatible curing adhesion of following layers of mortar, should commence immediately after
Application Tooling and Finishing	to remove all ti the steel shou priming and pr Data Sheet). Start mixing w over water as mix. Mix to a u drill (400-600 r Pre-wet surfac strate is achiew suitable means sure. Vibrate fo pumping until Form should n when appropri- ing As per ACI rec with wet burlag compound. Cu leveling mortar finishing. Prote *Pretesting of curing of	races of rust. Where c Id be high-pressure w rotection of reinforcing with 5.5 pints of water. excess water will cau uniform consistency, m pm) and paddle or in a te to SSD(Saturated S yed. To accomplish this is should be employed orm while pouring or p a 3 to 5 psi increase i tot deflect. Vent to be c ate. commendations for por b and polyethylene, a uring compounds adver r or protective coatings ect newly applied mate	An additional 0 use segregation aximum 3 minu appropriate-size surface Dry). En- s, material shoul such as vibratio umping. Pump v in normal line p capped when st rtland cement co fine mist of wate ersely affect the s. Moist curing s	ccurred due to the presence of chlorides, an water after mechanical cleaning. For Armatec 110 EpoCem (consult Technical 0.5 pint can be added if needed. Do not a. Add Sikacrete 211 while continuing to utes. Mechanically mix with a low-speed e mortar mixer or concrete mixer. sure good intimate contact with the sub- ld be scrubbed into the substrate or other on of the material or pumping under pres- with a variable pressure pump. Continue ressure is evident then STOP pumping. teady flow is evident, and forms stripped oncrete, curing is required. Moist cure er or a water based* compatible curing adhesion of following layers of mortar, should commence immediately after
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Tooling and Finishin	Pre-wet surfac strate is achiev suitable means sure. Vibrate fo pumping until Form should n when appropri- g As per ACI rec with wet burlan compound. Cu leveling mortan finishing. Prote *Pretesting of curing of	te to SSD(Saturated S ved. To accomplish this s should be employed orm while pouring or p a 3 to 5 psi increase i ot deflect. Vent to be o ate. commendations for por o and polyethylene, a uring compounds adve r or protective coating ect newly applied mate	surface Dry). En- s, material shoul such as vibratio umping. Pump v in normal line p capped when st rtland cement co fine mist of wate ersely affect the s. Moist curing s	sure good intimate contact with the sub- ld be scrubbed into the substrate or other on of the material or pumping under pres- with a variable pressure pump. Continue ressure is evident then STOP pumping. teady flow is evident, and forms stripped oncrete, curing is required. Moist cure er or a water based* compatible curing adhesion of following layers of mortar, should commence immediately after
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Limitations	 Application t 			0
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	INSTRUCTIONS ON THI WHICH ARE AVAILABL AT 800-933-7452. NOT AND FOLLOW THE WA	E PRODUCT'S MOST CURREN E ONLINE AT HTTP://USA.SI THING CONTAINED IN ANY S	IT PRODUCT DATA S IKA.COM/ OR BY CA SIKA MATERIALS REI FOR EACH SIKA PROI	VAYS READ AND FOLLOW THE WARNINGS AND HEET, PRODUCT LABEL AND SAFETY DATA SHEET ALLING SIKA'S TECHNICAL SERVICE DEPARTMENT LIEVES THE USER OF THE OBLIGATION TO READ DUCT AS SET FORTH IN THE CURRENT PRODUCT RODUCT USE.
For fur actual before	rther information and ad Safety Data Sheets conta susing the product. In ca	lvice regarding transportation, aining physical, ecological, tox ase of emergency, call CHEMTF	, handling, storage an kicological and other s REC at 1-800-424-9300	
Data Si ment a for eac	Sheet, product label and S at 800-933-7452. Nothing	Safety Data Sheet which are ava contained in any Sika materials	ailable online at http:// s relieves the user of the state of the stat	nings and instructions on the product's most current Product //usa.sika.com/ or by calling Sika's Technical Service Depart- he obligation to read and follow the warnings and instruction and Safety Data Sheet prior to
the cur Buyer's EXPRE SHALL THE US SALE CALLIN	Irrent Product Data Sheet 's sole remedy shall be lir ESS OR IMPLIED SHALL L NOT BE LIABLE UNDER SE OF THIS PRODUCT IN OF SIKA PRODUCTS A ING 201-933-8800.	If used as directed within shelf mited to the purchase price or re APPLY INCLUDING ANY WARR ANY LEGAL THEORY FOR SPI A MANNER TO INFRINGE ON AN ARE SUBJECT SIKA'S TERMS	f life. User determines eplacement of product RANTY OF MERCHANT ECIAL OR CONSEQUE NY PATENT OR ANY OT	anufacturing defects and to meet the technical properties on suitability of product for intended use and assumes all risks. t exclusive of labor or cost of labor. NO OTHER WARRANTIES TABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SIMIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY
	our website at usa.sika onal Information and Sa		of your nearest Sika	1-800-933-SIKA NATIONWIDE sales office, contact your regional center.
20 ⁻ Lyr Pho	ka Corporation 11 Polito Avenue Indhurst, NJ 07071 Ione: 800-933-7452 ax: 201-933-6225	Sika Canada inc. 601 Delmar Avenue Pointe Claire Quebec H9R 4A9	Carretera Libr Fracc. Industr	na S.A. de C.v. re Celaya Km. 8.5 rial Balvanera Queretaro

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Product Data Sheet Edition 5.7.2015 SikaTop[®] 111 PLUS

TESTED PER ICRI GUIDELINE FOR INORGANIC REPAIR MATERIAL DATA SHEET PROTOCOL GUIDELINE NO. 320.3R

SikaTop® 111 PLUS Two-component, polymer-modified, cementitious, screed mortar plus Sika FerroGard® 901 penetrating corrosion inhibitor

Description	SikaTop® 111 PLUS is a two-component, polymer-modified, portland cement-based, fast-setting, screed mortar. It is a high performance repair mortar for horizontal, vertical and overhead surfaces in form and pour applications. It offers the additional benefit of Sika FerroGard® 901, a penetrating corrosion inhibitor included in its formulation.
Where to Use	 On grade, above and below grade on concrete and mortar substrates. On horizontal, vertical and overhead surfaces. As a structural repair material for parking structures, industrial plants, walkways, bridges, tunnels, dams, floors, etc. Approved for reapairs over cathodic protection systems. Free-flowing repair mortar for hard-to-reach areas. Filler for voids and cavities.
Advantages	 Extremely low shrinkage proven by four industry standard test methods. High compressive and flexural strengths. Increased freeze/thaw durability and resistance to deicing salts. Compatible with coefficient of thermal expansion of concrete - Passes ASTM C 884. Increased density - improved carbon dioxide resistance (carbonation) without adversely affecting water vapor transmission (not a vapor barrier). Enhanced with Sika FerroGard® 901, a penetrating corrosion inhibitor - reduces corrosion even in the adjacent concrete USDA certifiable for incidental food contact. ANSI/NSF Standard 61 potable water compliant.
Coverage	0.5 cu. ft./ unit. Approximately 0.75 cu. ft./unit concrete (mixed mortar + 42 lbs. of 3/8" pea gravel)
Packaging	Component 'A' - 1-gal. plastic jug; 4/carton. Component 'B' - 61.5-lb. multi-wall bag.

Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Shelf Life One year in original, unopened packaging. Storage Conditions Storage Conditions Action 25°E Condition material to 65°-75°E before using Protect

Storage	sonations	Component 'A' from freezing. If frozen, discard.
Color		Concrete gray when mixed.
Mixing R	atio	Plant-proportioned kit, mix entire unit.
Applicati	on Time	Approximately 30 minutes.
Finishing	g Time	50-120 minutes
		adding Component 'B' to Component 'A' and are highly affected by temperature, bstrate temperature, wind, sun and other job site conditions.

relative numbulty, substrate ten	iperature, wind, sun and othe	er job site co	onations.	
Density (wet mix)	ASTM C 138		136 lbs./ft ³	(2.18 kg./l)
Flexural Strength	ASTM C 293	28 days		1,400 psi
Split Tensile	ASTM C 496	28 days		600 psi
Bond Strength	ASTM C 882 (modified)	28 days		2,000 psi
Compressive Strength	ASTM C 109			
		1 day		2,500 psi
		7 days 28 days		5,500 psi 6,500 psi
Shrinkaga	ASTM C 157	20 uays		0,500 psi
Shrinkage				
	(mod. ICRI 320.3R)			
Specimen Size 1" x 1" x 11-1/4"		28 days	<0.05%	
Specimen Size 3" x 3" x 11-1/4"		28 days	0.022%	
Ring Test (days)	ASTM C 1581		>70 days	
Ring Test - Average Max Strain	ASTM C 1581		-16 µstrain	
Ring Test - Average Stress Strain	ASTM C 1581		1.46 psi/da	ау
Ring Test - Potential for Cracking	ASTM C 1581		Low	
Baenzinger Block		90 days	No crackin	g
Freeze/Thaw Durability (300 cycles)	ASTM C 666		98%	
CI Permeability	ASTM C 1202		<500 Could	ombs.
Direct Bond Strength	ASTM C 1583	28 days	>500 psi (s	substrate failure)
Modulus of Elasticity	ASTM C 531		3.00 x 10 ⁶	psi
Initial Set Time (min)	ASTM C 266		40-70	
Final Set Time (min)	ASTM C 266		>90	



How to Use			
Substrate	Concrete, mortar, and masonry products.		
Surface Preparation	Remove all deteriorated concrete, dirt, oil, grease and all bond inhibiting materials from surface. Be sure repair area is not less than 1/2 inch in depth. Preparation work should be done by high pressure water blast, scabbler, or other appropriate mechanical means to obtain an exposed aggregate surface with a minimum surface profile of ±1/16 inch (CSP-5); ±1/8 inch (CSP-6). Saturate surface with clean water. Substrate should be saturated surface dry (SSD) with no standing water during application.		
	Reinforcing Steel: Steel reinforcement should be thoroughly prepared by mechanical cleaning to remove all traces of rust. Where corrosion has occurred due to the presence of chlorides, the steel should be high-pressure washed with clean water after mechanical cleaning. For priming of reinforcing steel use Sika® Armatec® 110 EpoCem (consult Product Data Sheet).		
	Priming Concrete Substrate: Prime the prepared substrate with a brush or sprayed applied coat of Sika® Armatec® 110 EpoCem (consult Product Data Sheet). Alternately, a scrub coat of SikaTop® 111 PLUS can be applied prior to placement of the mortar. The repair mortar has to be applied into the wet scrub coat before it dries.		
Mixing	Pour approximately 7/8 of Component 'A' into the mixing container. Add Component 'B' (powder) while mixing continuously. Mix mechanically with a low speed drill (400-600 rpm) and mixing paddle or mortar mixer. Add remaining Component 'A' (liquid) to mix if a more loose consistency is desired. Mix to a uniform consistency, maximum 3 minutes. Thorough mixing and proper proportioning of the two components is necessary.		
	For SikaTop 111 PLUS concrete: Pour all of Component 'A' into mixing container. Add all of Component 'B' while mixing then introduce 3/8 inch coarse aggregate at desired quantity. Mix to uniform consistency, maximum 3 minutes. Addition rat is 42 lbs. per bag (approx. 3.0 to 3.5 gal. by loose volume). The aggregate must be non-reactive (reference ASTM C 1260 C 227 and C 289), clean, well-graded, saturated surface dry, have low absorption and high density, and comply with ASTI C 33 size number 8 per Table 2.		
	Note: Variances in the quality of the aggregate will affect the physical properties of SikaTop 111 PLUS. The yield is increased to 0.75 cu. ft./unit with the addition of the aggregate (42 lbs.). Do not use limestone aggregate		
Application	Horizontal: Mortar or concrete must be scrubbed into the substrate, filling all pores and voids. After filling repair, screed the material. Allow mortar or concrete to set to desired stiffness, then finish with wood or sponge float for a smooth surface, or broom or burlap-drag for a rough finish.		
	Form and pour or pump applications: Pre-wet surface to SSD. Vibrate form while pouring or pumping. Pump with a variable pressure pump. Continue pumping until a 3 to 5 psi increase in normal line pressure is evident then STOP pumping. Form should not deflect. Vent to be capped when steady flow is evident, and forms stripped when appropriate.		
Tooling and Finishing	As per ACI recommendations for portland cement concrete, curing is required. Moist cure with wet burlap and polyethylene, a fine mist of water or a water based* compatible curing compound (ASTM C 309 compliant). Curing compounds adversely affect the adhesion of following layers of mortar, leveling mortar or protective coatings. Moist curing should commence immediately after finishing. Protect newly applied material from direct sunlight, wind, rain and frost. *Pretesting of curing compound is recommended.		
Limitations	Application thickness: Min. Max. inches one lift		
	Neat ¹ / ₂ inch (12 mm) 1 inch (25 mm)		
	Extended 1 inch (25 mm) 6 inches (150 mm) Minimum ambient and surface temperatures 45°F (7°C) and rising at time of application.		
	 Addition of coarse aggregates may result in variations of the physical properties of the mortar. 		
	 Do not use solvent-based curing compound. 		
	As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur [®] 32, Hi-Mod.		

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A190

Product Data Sheet Edition 2.3.2016 SikaQuick[®] FNP

SikaQuick[®] FNP

Self-consolidating, fast-setting, one-component, structural repair mortar with fiber reinforcement and integral corrosion inhibitor

Description	SikaQuick FNP is a self consolic concrete repair applications.	lating mortar for pouring and pumping into pre-placed aggregate,			
Where to Use	 Horizontal, vertical and over 	rhead repairs (formed)			
	 Parking garages, bridges, b structural applications 	eams, columns, tunnels, building facades, retaining walls and other			
	 Pre-placed aggregate appli 	cations			
		piers, damns, sea walls, etc.			
Advantages		mping and pouring in congested repairs			
	 Fiber Reinforced Integral corrosion inhibitor One-component for easy m Up to 8" in thickness Freeze/Thaw resistant Extremely Low Shrinkage 				
	 Excellent bond strength 				
Coverage	~0.5 cu.ft. per 55 lb bag.				
Packaging	55 lb bag				
	Typical Data (Material and curing conditions @	73°F (23°C) and 50% R.H.)			
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATI	ONS DEPENDING UPON MIXING METHODS AND EQUIPMENT,			
	TEMPERATURE, APPLICATION METHODS, TEST METHO Shelf Life: Storage Conditions: Condition material: Pot Life Initial Set Final Set VOC:	1 year in original, unopened packaging. Store dry at 40°-95°F (4°-35°C). Condition material to 65°- 75°F before using. 60 minutes 4-5 hours 6-7 hours 0 g/L			
	Compressive Strength (ASTM C-109), Day 1 Day 7 Day 28	psi (MPa) 4500 8500 >11000			
	Flexural Strength (ASTM C-348) Day 1 Day 7 Day 28	psi(MPa) 700 1300 1500			
	Modulus of Elasticity (ASTM C-469) Day 28	psi(GPa) 5×10 ⁶ (34)			
	Chloride Perm. (ASTM C1202/ AASHTO T277)	500 coulombs			
	Freeze Thaw Resist. (ASTM C666)	98%			
	Splitting Tensile Strength (ASTM C496)	900 psi (28 days)			
	Volume Change (ASTM C806)	+0.06			
	Direct Tensile Bond Strength (ACI 503R)	500-600 psi			
	Slant Shear Bond (ASTM C881)	3000 psi (28 days)			



How to Use	
Surface Preparation	Remove all deteriorated concrete, dirt, oil, grease, and all bond-inhibiting materials from surface. Be sure repair area is not less than 1 in. in depth. Preparation work should be done by high pressure water blast, scabbler, or other appropriate mechanical means to obtain an exposed aggregate surface with a minimum surface profile of ±1/8 in. (CSP-7-8). Saturate surface with clean water. Substrate should be saturated surface dry (SSD) with no standingwater during application.
	Reinforcing Steel: Steel reinforcement should be thoroughly prepared by mechanical cleaning to remove all traces of rust. Where corrosion has occurred due to the presence of chlorides, the steel should be high-pressure washed with clean water after mechanical cleaning. For priming and protec-tion of reinforcing steel use Sika [®] Armatec [®] 110 EpoCem (consult Product Data Sheet).
Mixing	Start with 10 pints of water in mixing container. Add SikaQuick FNP while continuing to mix. Add additional water up to 0.5 pints. Mix to a uniform consistency, maximum 3 minutes. Mechanically mix with a low-speed drill (400-600 rpm) and paddle or in appropriate size mortar mixer or concrete mixer.
Application	Form and pour or pump applications: Pre-wet surface to SSD(Saturated Surface Dry). Ensure good intimate contact with the substrate is achieved. To accomplish this, material should be scrubbed into the substrate or other suitable means should be employed such as vibration of the material or pumping under pressure. Vibrate form while pouring or pumping. Pump with a variable pres-sure pump. Continue pumping until a 3 to 5 psi increase in normal line pressure is evident then STOP pumping. Form should not deflect. Vent to be capped when steady flow is evident and forms stripped when appropriate. When preplaced aggregate, pre-wash aggregate before placing in repair area.
Tooling & Finishing	As per ACI recommendations for portland cement concrete, curing is required. Moist cure with wet burlap and polyethylene, a fine mist of water or a water based* compatible curing compound. Curing compounds adversely affect the adhesion of following layers of mortar, leveling mortar or protective coatings. Moist curing should commence immediately after finishing. Protect newly applied material from direct sunlight, wind, rain and frost. *Pretesting of curing compound is recommended.
Limitations	 Application thickness: Minimum 1 in. (25 mm); Maximum 8 in. (200 mm). Thicker appliations have been done successfully. Please consult Sika Technical Service.
	 Minimum ambient and surface temperatures 45°F (7°C) and rising at time of application. Refer to the American Concrete Institute (ACI) for cold-weather or hot-weather application guidelines.
	 Do not add any additives (plasticizers, accelerators, retarders, etc.) or cement to SikaQuick FNP
	 As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts, with an appropriate epoxy such as Sikadur[®] 32 Hi- Mod.
INSTRUCT SHEET WH PARTMEN TO READ /	EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND IONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA IICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE T AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR- IDUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.
application a and applied tions, actual recommenda vice, recomm plication and notice. All sa	KEEP CONTAINER TIGHTLY CLOSED • KEEP OUT OF REACH OF CHILDREN • NOT FOR INTERNAL CONSUMPTION • FOR INDUSTRIAL USE ONLY on provided by Sika Corporation ("Sika") concerning Sika products, including but not limited to, any recommendations and advice relating to t nd use of Sika products, is given in good faith based on Sika's current experience and knowledge of its products when properly stored, hand inder normal conditions in accordance with Sika's instructions. In practice, the differences in materials, substrates, storage and handling con site conditions and other factors outside of Sika's control are such that Sika assumes no liability for the provision of such information, advi tions or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, a endations or instructions related to its products. The user of the Sika product(s) must test the product(s) for suitability for the intended a purpose before proceeding with the full application of the product(s). Sika reserves the right to change the properties of its products withe sles of Sika product, the user must always read and follow the warnings and instructions on the product's most current Techn
Department struction for LIMITED W/	et, product label and Material Safety Data Sheet which are available online at <u>www.sikausa.com</u> or by calling Sika's Technical Servi at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and i each Sika product as set forth in the current Technical Data Sheet, product label and Material Safety Data Sheet prior to product u NRRANTY: Sika warrants this product for one year from date of installation to be free from manufacturing defects and to meet t operties on the current Technical Data Sheet if used as directed within shelf life. User determines suitability of product for intend
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Product Data Sheet Edition 7.25.2014 Sikacem 103

Sikacem[®] 103

Machine-applied, silica fume enhanced, cementitious mortar

Description	Sikacem 103 is a ready-to-use, non-accelerated, cementitious, silica fume enhanced mortar with a dust contro agent. Sikacem 103 is formulated for machine applications using dry or wet process spray equipment.
Where to Use	 Sikacem 103 is particularly suitable for structural repairs in large area applications; for structures such as bridges, viaducts, retaining walls, parking structures, tunnels, galleries, industrial and residential buildings, piers, off-shore platforms, etc. Use on grade, above, and below grade on concrete and mortar. Use on vertical, overhead and horizontal surfaces.
Advantages	 One-component, ready to use mortar. Excellent adhesion to currently prepared, sound substrates. High compressive and flexural strength, rapid strength and development High density. Not a vapor barrier. Formulated to minimize dust formation. Low in rebound, extremely economical in use. Low water cement ratio, very low shrinkage. Can be troweled and screed after application.
Coverage	Yield in service will vary according to amount of water utilized in the shotcreting process. Theoretical yield without waste, of a 55 lb. bag is approximately 0.48 cu.ft/bag. Estimating should be based on prior experience or actual field evaluation
Packaging	55 lb. multi-wall bags.
	Typical Data (Material and curing conditions @ 73F (23°C) and 100% R.H.)
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Shelf Life 1 year in original, unopened bags.
	Storage Conditions Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using.
	Color Concrete gray
	Density (wet mix) 137 lbs./cu.ft. (2.2 kg/l) Compressive Strength (ASTM C-109) (3 inch cubes) 2 day 6,000 psi (41.4 MPa) 7 day 7,000 psi (48.3 MPa) 28 day 8,000 psi (55.2 MPa)
	Freeze/Thaw Resistance (ASTM C-666) 300 cycles 95%
	Rapid Chloride Permeability Testing (AASHTO T-277) Coulombs passed: less than 750 (very low)
	Flexural Strength (ASTM C-78) 7 day 1,000 psi (6.9 MPa) 28 day 1,400 psi (9.7 MPa)
	Tensile Strength (ASTM C-496) 7 day 600 psi 20 day 750 psi 20 day 750 psi
	28 day 750 psi (5.2 MPa)
	28 day 750 psi (5.2 MPa) Direct Bond Strength (pull off test) (ACI 503.R) 28 day 290-580 psi (2-4 MPa) mostly concrete failure (substrate)



How to Use	
Surface Preparation	nants and other bond-inhibiting materials. Steel reinforcement must be clean and free from any rust. Be sure repair area is not less than 1/3 in. in depth. Preparation work should be done by high pressure water blast scabbler, or other appropriate mechanical means, to obtain an exposed aggregate surface (CSP-6). Saturate surface with clean water. Substrate should be saturated surface dry (SSD) with no standing water during application. When applying on critical substrates, the use of Sika Armatec 110 EpoCem as a bonding agent is advised.
	Reinforcing Steel: Steel reinforcement should be thoroughly prepared by mechanical cleaning to remove al traces of rust. Where corrosion has occurred due to the presence of chlorides, the steel should be high-pressure washed with clean water after mechanical cleaning. For priming of reinforcing steel, use Sika Armatec 110 EpoCem (consult Product Data Sheet).
Application	Dry Process: Sikacem 103 is applied by conventional dry spray shotcrete equipment. Generally, do not use equipment with high rotor capacity. Apply Sikacem 103 in accordance with ACI 506-R85, "Guide to Shotcrete" Important factors to observe during shotcreting are nozzle distance (2-6 ft.), angle to substrate (90°F), and consistency of mortar. Immediately after application and before set, mortar consistency should be plastic, like a firm jell.
	Wet Process: Mixing: Conventional wet-process spray equipment such as the Mayco ST-45 or C-30HD ma chine should be used. Set up wet-process equipment; then add the water (approx. 5 pints per bag) directly into mixer. Start the mixer in motion and add the Sikacem 103 mortar while continuing to mix. Mix to uniform consistency using a maximum of 6 pints of water per 55 lb. (25 kg.) bag (approx. 3 minutes).
	Application: At time of application, surfaces should be saturated surface dry but hold no standing water. Appl Sikacem 103 mortar by spraying or trowelling for repairing vertical or overhead surfaces. Shoot the material perpendicular to the surface. This minimizes rebound, creates the smoothest pattern (reduces 'bumps') and properly encases the rebars. The velocity of the material is sufficient if, at a distance of 18 to 24 in., the material pattern flattens out on contact with the surface and the rebars are encased. After applying the material, allow it to stiffen for about 10 minutes before removing bumpy areas with a trowel. Before applying the next layer allow the material to reach initial set. This will take anywhere from 2 -4 hours, depending on mix consistency mix and ambient temperature, wind conditions and humidity. Begin and finish a given patch on the same day
Tooling and Finishin	 g A natural gun finish may be used. If a gun-finish is too rough, special finishes may be applied. Approximatel 5-10 min. after initial set, excess material should be sliced off with a sharp-edged cutting screed. The surface may then be finished to your requirements: broomed for a rough texture wood-flo ted for a granular texture steel-trowelled for a smooth finish
	As per ACI recommendations for portland cement concrete, curing is required. Moist cure with wet burlap polyethylene, a fine mist of water or a water based* compatible curing compound. Curing compounds adver affect the adhesion of following layers of mortar, leveling mortar or protective coatings. Moist curing sh commence immediately after finishing. Protect newly applied material from direct sunlight, wind, rain and from *Pretesting of curing compound is recommended.
Limitations	 Application thickness: Minimum 1/3 inch (8 mm) for large areas, local 1/4 inch (6 mm) can be tolerated. Maximum in one layer for large areas, 2 inches (50 mm). Local applications up to 6-10 inches (150-25 mm) are possible. Minimum ambient and surface temperatures 40°F (4°C) and rising at the time of application. Do not use solvent-based curing compounds. As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction an possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. wit an appropriate epoxy such as Sikadur Hi-Mod 32.
	PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800-933-7452. NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTION FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.
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Product Data Sheet Edition 7.25.2014 Sikacem 103F

Sikacem[®] 103F

Machine-applied, silica fume enhanced, fiber-reinforced cementitious mortar

Description	Sikacem 103F is a ready-to-use, non-accelerated, cementitious, silica fume enhanced, fiber-reinforce mortar with a dust control agent. Sikacem 103F is formulated for machine applications using dry or wet process spray equipment.
Where to Use	Sikacem 103F is particularly suitable for structural repairs in large area applications; for structures such as bridges, viaducts, retaining walls, parking structures, tunnels, galleries, industrial and residential buildings, piers, off-shore platforms, etc. Use on grade, above, and below grade on concrete and mortar.
	Use on vertical, overhead and horizontal surfaces.
Advantages	 One-component, ready to use mortar. Excellent adhesion to currently prepared, sound substrates. High compressive and flexura strength, rapid strength and development. Fiber-reinforced High density. Not a vapor barrier. Formulated to minimize dust formation. Low in rebound, extremely economical in use. Low water cement ratio, very low shrinkage. Can be troweled and screed after application.
Coverage	Yield in service will vary according to amount of water utilized in the shotcreting process. Theoretical yield,
	without waste, of a 55 lb. bag is approximately 0.48 cu.ft/bag. Estimating should be based on prior experience or actual fiel evaluation.
Packaging	55 lb. multi-wall bags.
	Typical Data (Material and curing conditions @ 73F (23°C) and 100% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Shelf Life 1 year in original, unopened bags. Storage Conditions Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using. Color Concrete gray Density (wet mix) 137 Ibs./cu.ft. (2.2 kg/l) Compressive Strength (ASTM C-109) (3 inch cubes) 2 day 6,000 psi 7,000 psi (48.3 MPa) 28 day 8,000 psi
	Freeze/Thaw Resistance (ASTM C-666) 300 cycles 95%
	Rapid Chloride Permeability Testing (AASHTO T-277) Coulombs passed: less than 750 (very low)
	Flexural Strength (ASTM C-78) 7 day 1,000 psi (6.9 MPa) 28 day 1,400 psi (9.7 MPa)
	Tensile Strength (ASTM C-496) 7 day 600 psi (4.1 MPa) 28 day 750 psi (5.2 MPa)
	Direct Bond Strength (pull off test) (ACI 503.R)28 day290-580 psi(2-4 MPa)mostly concrete failure (substrate)
	Modulus of Elasticity 4.6 x 10 ⁶ psi (32,000 MPa) Static Modulus (28 days) 4.6 x 10 ⁶ psi (40,000 MPa) Dynamic Modulus (28 days) 5.8 x 10 ⁶ psi (40,000 MPa)



How to Use				
Surface Preparation	nants and other bond-in repair area is not less scabbler, or other appro- surface with clean wate plication. When applyin	nhibiting materials. Steel than 1/3 in. in depth. Pre opriate mechanical mean er. Substrate should be sa	reinforcement must be clear paration work should be do s, to obtain an exposed aggi uturated surface dry (SSD) v	loose material, surface contan and free from any rust. Be su ne by high pressure water blas regate surface (CSP-6). Satura vith no standing water during a D EpoCem as a bonding agent
	traces of rust. Where co	rrosion has occurred due er after mechanical clear	to the presence of chlorides,	nechanical cleaning to remove a the steel should be high-pressu ing steel, use Sika Armatec 17
Application	equipment with high rote Important factors to ob	or capacity. Apply Sikacer serve during shotcreting	n 103F in accordance with A0 are nozzle distance (2-6 ft.	equipment. Generally, do not us CI 506-R85, "Guide to Shotcrete), angle to substrate (90°F), ar r consistency should be plasti
	Wet Process: Mixing: chine should be used. into mixer. Start the mix consistency using a ma	Set up wet-process equi ker in motion and add the aximum of 6 pints of wate	oment; then add the water (Sikacem 103F mortar while r per 55 lb. (25 kg.) bag (ap)	
	Sikacem 103F mortar b perpendicular to the su properly encases the re pattern flatten out on co it to stiffen for about 10 allow the material to rea	by spraying or trowelling furface. This minimizes relubras. The velocity of the nontact with the surface ar minutes before removin ach initial set. This will tal	or repairing vertical or over bound, creates the smoothe naterial is sufficien if, at a dis id the rebars are encased. A g bumpy areas with a trowe anywhere from 2 -4 hours	but hold no standing water. App ead surfaces. Shoot the materi st pattern (reduces 'bumps') ar tance of 18 to 24 in., the materia fter applying the material, allow I. Before applying the next laye s, depending on mix consistence a given patch on the same day
Tooling and Finishing	5-10 min. after initial se	et, excess material should be finished to your require n texture iranular texture	be sliced off with a sharp-e	r may be applied. Approximate dged cutting screed.
	and polyethylenes, a fi adversely affect the add	n mist of water or a wat nesion of following layers nediately after finishing F	er based* compatible curing of mortar, leveling mortar or	ired. Moist cure with wet burk g compound. Curing compound protective coatings. Moist curir al from direct sunlight, wind, ra
Limitations	 Maximum in one lay mm) are possible. Minimum ambient a Do not use solvent- As with all cement b possible product fail 	yer for large areas, 2 incl nd surface temperatures based curing compounds ased materials, avoid con	nes (50 mm). Local applicat 40°F (4°C) and rising at the tact with aluminum to prevent as of contact by coating alu	inch (6 mm) can be tolerated. ions up to 6-10 inches (150-2 time of application. nt adverse chemical reaction ar minum bars, rails, posts etc. wi
	PRIOR TO EACH USE O INSTRUCTIONS ON THE WHICH ARE AVAILABLE AT 800-933-7452. NOTH AND FOLLOW THE WAR	F ANY SIKA PRODUCT, THE PRODUCT'S MOST CURRENT ONLINE AT HTTP://USA.SIKA IING CONTAINED IN ANY SIK NINGS AND INSTRUCTION FO	USER MUST ALWAYS READ AN PRODUCT DATA SHEET, PRODUC LCOM/ OR BY CALLING SIKA'S A MATERIALS RELIEVES THE US	D FOLLOW THE WARNINGS AND T LABEL AND SAFETY DATA SHEET FECHNICAL SERVICE DEPARTMENT ER OF THE OBLIGATION TO READ ORTH IN THE CURRENT PRODUCT
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actua	al Safety Data Sheets containir	ng physical, ecological, toxicolo		mical products, users should refer to Read the current actual Safety Data SI 3-527-3887.
Data ment for ea	Sheet, product label and Safe at 800-933-7452. Nothing cont	ty Data Sheet which are availab tained in any Sika materials relie	e online at http://usa.sika.com/ or l	ons on the product's most current Pro by calling Sika's Technical Service Dep ad and follow the warnings and instruc iheet prior to
the ci Buye EXPF SHAL THE U SALE	urrent Product Data Sheet if us r's sole remedy shall be limiter RESS OR IMPLIED SHALL APP L NOT BE LIABLE UNDER AN JSE OF THIS PRODUCT IN A M/	sed as directed within shelf life. d to the purchase price or replac rLY INCLUDING ANY WARRANT Y LEGAL THEORY FOR SPECIA ANNER TO INFRINGE ON ANY PA	User determines suitability of produ ement of product exclusive of labor V OF MERCHANTABILITY OR FITN L OR CONSEQUENTIAL DAMAGES TENT OR ANY OTHER INTELLECTU	ts and to meet the technical properties uct for intended use and assumes all ri- or cost of labor. NO OTHER WARRAN ESS FOR A PARTICULAR PURPOSE. S SIKA SHALL NOT BE RESPONSIBLE F IAL PROPERTY RIGHTS HELD BY OTHE BBLE AT HTTP://USA.SIKA.COM/ OR
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KC S 22 Lu	ika Corporation 01 Polito Avenue yndhurst, NJ 07071 hone: 800-933-7452 ax: 201-933-6225	Sika Canada inc. 601 Delmar Avenue Pointe Claire Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792	Sika Mexicana S.A. de C.v. Carretera Libre Celaya Km. 8.5 Fracc. Industrial Balvanera Corregidora, Queretaro C.P. 76920 Phone: 52 442 2385800 Fax: 52 442 2250537	

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Sikacem[®] 133

Machine-applied, polymer-modified, silica fume enhanced, cementitious mortar

Description	Sikacem [®] 133 is a high performance, ready-to-use, non-accelerated, cementitious, polymer-modified, silica fume enhanced mortar with a dust control agent. Sikacem [®] 133 is formulated for machine applications using dry or wet process shotcrete equipment.		
Where to Use	 Sikacem[®] 133 is particularly suitable for structural repairs in large area applications; for structures such as bridges, viaducts, retaining walls, parking structures, tunnels, galleries, industrial and residential buildings, piers, off-shore platforms, etc. Use on grade, above, and below grade on concrete and mortar. Use on vertical, overhead and horizontal surfaces. 		
Advantages	 One-component, ready to use mortar. Excellent adhesion to currently prepared, sound substrates. High compressive and flexural strength, rapid strength development. Excellent freeze/thaw durability and resistance to deicing salts. Tested for application during dynamic load (under traffic conditions). Increased density and durability - can be used as a thin overlay for additional protection of reinforcement. High resistance to the diffusion of carbon dioxide (carbonation). Not a vapor barrier. Constant modulus of elasticity in a wide temperature range. Formulated to minimize dust formation. Low in rebound, extremely economical in use. Low water cement ratio, very low shrinkage. Can be troweled and screed after application. 		
Coverage Yield in service will vary according to rebound and amount of water utilized in the shotcreting provided for overhead consistencies approximately 0.42 cu. ft./bag. For vertical consistencies approximately 0.48 cu. ft./bag. Estimating should be experience or actual field evaluation.			
Packaging	55 lb. multi-wall bags.		
Typical Data (Material and curing conditions @ 73°F (23°C) and 100% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIP TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS Shelf Life 1 year in original, unopened bags.			
	Storage Conditions Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using.		
	Color Concrete gray		
	Density (wet mix) 137 lbs./cu. ft. (2.2 kg./l)		
	Compressive Strength (ASTM C-109) 2 day 4,000 psi (27.6 MPa) 7 day 6,000 psi (41.4 MPa) 28 day 8,000 psi (55.2 MPa)		
	Freeze/Thaw Resistance (ASTM C-666) 300 cycles 100%		
	Flexural Strength (ASTM C-78) 7 day 1,250 psi (8.6 MPa) 28 day 1,630 psi (11.2 MPa)		
	Rapid Chloride Permeability Testing (AASHTO T-277) Coulombs passed: less than 500		
	Tensile Strength (ASTM C-496) 7 day 630 psi (4.3 MPa) 28 day 800 psi (5.5 MPa)		
	Direct BondStrength (pull off test) (ACI 503.R)28 day290-580 psi (2-4 MPa) mostly concrete failure (substrate)		
	Modulus of Elasticity Static Modulus (28 days) 3.5 x 10 ⁶ psi (24,000 MPa) at -4°/68°F (-20°/+20°C) Dynamic Modulus (28 days) 4.8 x 10 ⁶ psi (33,000 MPa)		
	Carbon Dioxide DiffusionCoefficient (µCO2)20,000		
	Coefficient of Thermal Expansion4.4 x 10-6/F (8 x 10-6/C)		
	Tested and approved for application during dynamic load by the Technical University, Aachen for the German Federal Ministry of Transportation.		
	PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE- PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION		

TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-

RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

How to Use				
Surface Preparation	taminants and other sure re-pair area is r scabbler, or other ap surface with clean w	bond-inhibiting materials. not less than 1/4" in depth. I ppropriate mechanical mea vater. Substrate should be s	Steel reinforcement must b Preparation work should be ns, to obtain an exposed ag saturated surface dry (SSD	ease, loose material, surface con- be clean and free from any rust. Be done by high pressure water blast, ggregate surface (CSP-6). Saturate) with no standing water during ap- 110 EpoCem as a bonding agent is
	traces of rust. Where	corrosion has occurred due vater after mechanical clea	e to the presence of chloride	r mechanical cleaning to remove all s, the steel should be high-pressure cing steel, use Sika® Armatec® 110
Application	equipment with high Important factors to	rotor capacity. Apply Sikace observe during shotcreting	em [®] 133 in accordance with are nozzle distance (2-6 ft.	e equipment. Generally, do not use ACI 506-R85, "Guide to Shotcrete". .), angle to substrate (90), and con- onsistency should be plastic, like a
	chine should be use directly into mixer. S	d. Set up wet-process shot start the mixer in motion and	crete equipment; then add d add the Sikacem [®] 133 mo	s the Mayco ST-45 or C-30HD ma- the water (approx. 5 pints per bag) ortar while continuing to mix. Mix to J.) bag (approx. 3 minutes).
	Sikacem [®] 133 morta perpendicular to the properly encases the pattern flattens out o it to stiffen for about allow the material to	ar by spraying or trowelling surface. This minimizes re e rebars. The velocity of the on contact with the surface 10 minutes before removi reach initial set. This will tak	for repairing vertical or over ebound, creates the smooth e material is sufficient if, at a and the rebars are encased ng bumpy areas with a trow a anywhere from 2-4 hours	ry but hold no standing water. Apply rhead surfaces. Shoot the material nest pattern (reduces 'bumps') and a distance of 18-24 in., the material d. After applying the material, allow wel. Before applying the next layer, , depending on the mix consistency, hish a given patch on the same day.
Tooling & finishing	5-10 min. after initia	l set, excess material shou d to your requirements: bro	d be sliced off with a sharp	hes may be applied. Approximately -edged cutting screed. The surface wood-floated for a granular texture;
	and polyethylene, a adversely affect the should commence in and frost.	fine mist of water or a wa adhesion of following layer	ter based* compatible curn s of mortar, leveling mortar	required. Moist cure with wet burlap i g compound. Curing compounds or protective coatings. Moist curing erial from direct sunlight, wind, rain
Limitations	 Maximum in one la are possible. Minimum ambient Do not use solver As with all cement possible product 	ayer for large areas, 2 inche t and surface temperatures nt-based curing compounds t based materials, avoid co	es (50 mm). Local applicatio 40°F (4°C) and rising at th s. ntact with aluminum to prev rea of contact by coating al	4 inch (6 mm) can be tolerated. Ins up to 6-10 inches (150-250 mm) e time of application. Yent adverse chemical reaction and uminum bars, rails, posts, etc. with
INS SHI PAF TO REI KEEP	TRUCTIONS ON THE P EET WHICH ARE AVAIL RTMENT AT 800.933.745 READ AND FOLLOW TI NT PRODUCT DATA SH CONTAINER TIGHTLY CLOSED. K	PRODUCT'S MOST CURRENT ABLE ONLINE AT HTTP://US 52 NOTHING CONTAINED IN A HE WARNINGS AND INSTRU EET, PRODUCT LABEL AND EEPOUT OF REACH OF CHILDREN. NOT	F PRODUCT DATA SHEET, P A.S.KA.COM/ OR BY CALLIN ANY SIKA MATERIALS RELIE CTIONS FOR EACH SIKA PR SAFETY DATA SHEET PRIOF FOR INTERNAL CONSUMPTION. FOR IND	USTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY.
actua befor Prior Data ment for ec	al Safety Data Sheets contai re using the product. In case to each use of any Sika prod Sheet, product label and Sa at 800-933-7452. Nothing co	ning physical, ecological, toxicolo e of emergency, call CHEMTREC duct, the user must always read ar ifety Data Sheet which are availab ontained in any Sika materials reli	ogical and other safety related data at 1-800-424-9300, International 7(nd follow the warnings and instruc le online at http://usa.sika.com/ oi	tions on the product's most current Product r by calling Sika's Technical Service Depart- ead and follow the warnings and instruction
SiKA the ci Buye EXPP SHAL THE L SALE	warrants this product for o urrent Product Data Sheet if r's sole remedy shall be limi RESS OR IMPLIED SHALL A LL NOT BE LIABLE UNDER A USE OF THIS PRODUCT IN A	used as directed within shelf life. ted to the purchase price or replac PPLY INCLUDING ANY WARRANT ANY LEGAL THEORY FOR SPECIA MANNER TO INFRINGE ON ANY P/	User determines suitability of pro- ement of product exclusive of labo Y OF MERCHANTABILITY OR FITI L OR CONSEQUENTIAL DAMAGE ATENT OR ANY OTHER INTELLECT	ects and to meet the technical properties on duct for intended use and assumes all risks. or or cost of labor. NO OTHER WARRANTIES NESS FOR A PARTICULAR PURPOSE. SIKA S. SIKA SHALL NOT BE RESPONSIBLE FOR UAL PROPERTY RIGHTS HELD BY OTHERS. ABLE AT HTTP://USA.SIKA.COM/ OR BY
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Ka	ional Information and Sale Sika Corporation 201 Polito Avenue Lyndhurst, NJ 07071 Phone: 800-933-7452 Fax: 201-933-6225	es Centers. For the location of yo Sika Canada Inc. 601 Delmar Avenue Pointe Claire Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792	our nearest Sika sales office, cont Sika Mexicana S.A. de C.V. Carretera Libre Celaya Km. & Fracc. Industrial Balvanera Corregidora, Queretaro C.P. 76920 Phone: 52 442 2385800	ABSIN C

Corregidora, Queretaro C.P. 76920 Phone: 52 442 2385800 Fax: 52 442 2250537

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Product Data Sheet Edition 7.14.2014 SikaRepair 224

SikaRepair® 224 One-component, cementitious,

sprayable mortar for structural repairs

Where to Use	 A high performance repair mortar for wet spray application. Suitable for new construction, repairs, and mai tenance work. Typical applications include: Structural repair material for water and wastewater treatment plants, parking structures, industrial plants, bridges, tunnels and dams, etc. Use on vertical and overhead surfaces. Use on grade, above, and below grade on concrete and mortar. Potable water tank. (NSF approved in Marion, OH and Santa Fe Springs, CA) 		
Avantagos	 Structural repair material for water and wastewater treatment plants, parking structures, industrial plants, bridges, tunnels and dams, etc. Use on vertical and overhead surfaces. Use on grade, above, and below grade on concrete and mortar. 		
uvantayes	 Ready-for-use, one-component material. Easy to use; just add water. Sprayable system. Potable water approved. Superior workability. Can be trowelled and screeded after application. Labor-saving system. Superior abrasion resistance over conventional Portland cement mortar. Bond strength ensures superior adhesion. Not a vapor barrier. Compatible with coefficien of thermal expansion of concrete. Increased resistance to de-icing salts. Good freeze/thaw resistance. High early strengths. Very low shrinkage. Silica Fume enhanced. Fiber reinforced. 		
Coverage	Yield in service will vary. Average yield is approximately 0.40 cu. ft./bag. Estimating should be based on prior experience or actual field evaluation.		
Packaging	50-lb. (22.7 kg) multi-wall bags.		
	Typical Data (Material and curing conditions @ 73°F and 100% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Shelf Life 1 year in original, unopened bags. Storage Conditions Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F before		
	using. Color Dark gray.		
	Mixing Ratio 3/4 gallon to 7/8 gallon liquid per 50 lb. bag of material		
	Density (wet mix) 125 lbs./cu. ft. (2.0 kg./l.)		
	Compressive Strength (ASTM C-109) 73°F 1 day 4,500 psi (31 MPa) 7 day 8,000 psi (55 MPa) 28 day 10,000 psi (69 MPa)		
	Flexural Strength (ASTM C-348) 28 day 1,100 psi (7.6 MPa)		
	Tensile Strength (ASTM C-496) 28 day 735 psi (5.0 MPa)		
	Direct Tensile Pull off (ACI 503) 28 day greater than 350 psi (Failure in substrate. Substrate prepared with 20,000 psi hydroblasting)		
	Slant Shear (ASTM C -882 modified 28 day >2,500 psi (24.1 MPa)		
	Chloride Permeability (ASTM C1202/AASHTO T277) 28 day less than 500 coulombs		
	Sulfate Resistance (ASTM C-1012) 1 year less than 0.06%		



How to Use	
Surface Preparation	Substrate must be sound, clean, and free from oil, grease, loose material, surface contaminants and other bond-inhibitin materials. Steel reinforcement must be clean and free from any rust. Be sure repair area is not less than 3/8 in. in depth Preparation work should be done by high pressure water blast, or other appropriate mechanical means, to obtain an expose aggregate surface (CSP-6). Saturate surface with clean water. Substrate should be saturated surface dry (SSD) with n stand-ing water during application. Reinforcing Steel: Steel reinforcement should be thoroughly prepared by mechanica cleaning to remove all traces of rust. Where corrosion has occurred due to the presence of chlorides, the steel should b high-pressure washed with clean water after mechanical cleaning. For priming of reinforcing steel, use Sika Armatec 11 EpoCem (consult Technical Data Sheet).
Priming	Concrete Substrate: Prime the prepared substrate with a brush or sprayed applied coat of Sika Armate 110 EpoCem (consult Technical Data Sheet). Alternately, a scrub coat of Sika Repair 224 can be applied prior to placement of the mortar. The repair mortar has to be applied into the wet scrub coat before it dried the scrub coat before it dried to be applied into the wet scrub coat before it dried to be applied into the wet scrub coat before it dried to be applied into the scrub coat before it dried to be applied to be applied into the scrub coat before it dried to be applied to be a
Mixing	With water: Add the water (approx. 3/4 gal.) directly into mixer. Start the mixer in motion and add the SikaRepair 224 mortar while continuing to mix. Mix to uniform consistency using a maximum of 7/8 gallons of water per 50 lb. (22.7 kg.) bag (approx. 3 minutes). With Latex R: Pour 6-7 pints of Sika Latex R into the mixing container. Slowly add powder and mix as abov. With Diluted Latex R: Sika Latex R may be diluted up to 5:1 (water: Sika Latex R) for projects requiring minim polymer-modification Pour 6-7 pints of the mixture into the mixing container. Slowly add powder and mix as above.
	SikaRepair 224 Concrete: For horizontal applications greater than 1 inch deep, add 3/8 inch coarse aggregate. Aggregate must be non-reactive (reference ASTMC1260, C227 and C289), clean, well-graded, saturated surface dry (SSD), have low absorptio and high density, and comply with ASTM C33 size number 8 per Table 2. Addition rate must not exceed 25 lbs. of aggregate/ba of SikaRepair 224 (25 lbs. of 3/8 in. aggregate is approximately 2.0 to 2.5 gal. by loose volume of aggregate). If the placement is vertical or overhead, temporary support of the material is required. Contact Sika Technical Service for application details
Application	Conventional wet-process shotcreting equipment such as a low-pressure or a high-pressure machine should be used. At time of application, surfaces should be saturated surface dry but hold no standing water. Apply SikaRepair 224 mortar by low pressure spraying or trowelling for repairing vertical or overhead surfaces. Shoot the shotcrete perpendicular to the surface. This minimize rebound, creates the smoothest pattern (reduces 'bumps') and properly encases the rebars. The velocity of the shotcrete is sufficien if, at a distance of 18 to 24 in., the shotcrete pattern flatten out on contact with the surface and the rebars are encased. After applying the shotcrete, allow it to stiffen for about 10 minutes before removing bumpy areas with a trowel. Before applying the next layer, allow the shotcrete to reach initial set. This will take anywhere from 45 minutes to several hours, depending o mix consistency, mix and ambient temperature, wind conditions and humidity. Begin and finis a given patch on the same dage.
Tooling and Finishing	g As per ACI recommendations for portland cement mortar, curing is required when jobsite conditions warrant. Moist cure wit wet burlap and polyethylene, a fine mist of water or a water based* compatible curing compound. Curing compound adversely affect the adhesion of following layers of mortar, leveling mortar or protective coatings. Moist curing shoul commence immediately after finishing Protect newly applied material from direct sunlight, wind, rain and frost. *Pretesting of curing compound is recommended.
Limitations	 Application thickness: Minimum 3/8 inch (9 mm). Vertical applications: SikaRepair 224 can be spray applied up to 2" thickness in one lift. Overhead applications: The thickness should be no more than 1 to 1.5" per pass. If repair requires several lifts (over 1.5"), each lift should be applied as soon as the previous lift will support it. General: For additional information, consult Technical Service. Minimum ambient and surface temperatures 40°F (4°C) and rising at the time of application. As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur Hi-Mod 32.

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KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY.

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart-ment at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.



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A240

Sikacrete[®]-213F Fire protection mortar

Pre-bagged, cement-based, fire protection mortar. Protects FRP/ epoxy from exposure due to high temperatures of fire.

Description	Sikacrete [®] -213F is a cement-based, pre-bagged, dry mix, fire protection mortar. It is high effective in protecting FRP strengthening structures from the high temperature of fire. It is als used in tunnel construction as a fire barrier.		
Where to Use	Sikacrete [®] -213F is used for concrete and reinforced concrete structures exposed hazards. It contains phyllosilicate aggregates, which are highly effective in resisting the of hydrocarbon fires. The thickness of the fire protection layer to be applied depends specified fire resistance. The outstanding properties of Sikacrete [®] -213F allow greatly re thickness of the fire protection layer required.		
Advantages	 Pre-bagged, dry mortar mix for application by wet spray process. Minimal layer thickness to meet specifications. Easy to apply. Lightweight, low density. Does not require reinforcement up to 40 mm (1.57 in.) thick except for overhead applications. The sprayed mortar surface can be finished by trowel or wood float. >240 minutes fire resistance achievable. Minimal rebound. 4 hour fire resistance over SikaWrap® and CarboDur FRP composites UL File BXUV.N856 - beam strengthened with CarborDur plates and SikaWrap® 103C/230C fabrics UL File BXUV.N857 - beam strengthened with SikaWrap® 103C/100G/A30G fabrics UL File BXUV.X855 - Column strengthened with SikaWrap® 103C fabric ULC File BXUVC.N813 – beam strengthened with CarboDur plates and SikaWrap® 103C/230C fabrics UL C File BXUVC.N814 – beam strengthened with SikaWrap® 103C/100G/430G fabrics ULC File BXUVC.X826 - column strengthened with SikaWrap® 103C/100G/430G fabrics ULC File BXUVC.X826 - column strengthened with SikaWrap® 103C/100G/430G fabrics ULC File BXUVC.X826 - column strengthened with SikaWrap® 103C/100G/430G fabrics ULC File BXUVC.X826 - column strengthened with SikaWrap® 103C/100G/430G fabrics ULC File BXUVC.X826 - column strengthened with SikaWrap® 103C/100G/430G fabrics 		
Coverage	 Fire-resistance ratings tested in accordance with ANSI/UL 263 Consumption Approx. 6 kg/m2 for a layer thickness of 10 mm. Approx. 6 sf/12 kg bag for layer thickness of 40 mm (1.57 in.) 		
Packaging	26.46 lb bag (12 kg)		
	Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.		
	Self Life: 1 Year in original, unopened packaging in cool and dry conditions. Density: Powder: Approx. 0.46 kg/l Fresh applied: Approx. 1.17 kg/l (sprayed) Applied after 28 days: Approx. 0.61 kg/l (sprayed) pH Value: 12.0 -12.5 Layer Thickness: 40 mm (1.57 in.)		
	Mechanical / Physical Properties Compressive Strength: Approx. 2.0 N/mm Freeze/Thaw/De-Icing: In order to guarantee resistance to frost, freeze thaw cycles and de-icing salts, the Salt Resistance surface of the mortar must be treated with Sikagard-Wallcoat T. Thermal Conductivity: Approx. 0.23 W/mK at +10°C		
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crete: Concrete substrate must be clean and sound. Remove any existing coatings, oil, se, dirt, dust, curing agents, impregnations, wax, laitance, coatings and bond-inhibiting erials fro the surface by appropriate means, including high-pressure water (> 11,000 psi). substrate must be thoroughly pre-dampened to a saturated, surface dry (SSD) condition event water loss and incomplete cement hydration when the mortar is placed. Stell substrates must be clean, dry and stable. Remove all existing treatments, such oatings, sealers, wax and other contaminants such as rust, dirt, grease, oils and foreign er. A steel primer is recommended. Composites: Composite materials, such as carbon and glass fiber reinforced polymers to cured, clean, dry and stable. Remove all carbon dust from the surface. If the epoxy has blushed, this must be cleaned prior to installing Sikacrete®-213F. Prime the FRP posite surface with Sikadur® 300 or Sikadur® 330 epoxy. Broadcast binding aggregate the wet prime coat to adhere the Sikacrete®-213F fire resistant mortar. r 2 gallons, 7 pints (10.9 liters) of potable water into a suitably sized and clean mixing ainer. Add 1 bag (12 kg) Sikacrete-213F powder slowly while mechanically mixing, g a heavy duty, low speed drill (300 – 450 rpm) with a mud mixer or other suitable file. Mix to a uniform consistency for a minimum of 3 minutes. Mixing can also be done mortar mixer setup for a direct feed in to wet shotcreting equipment, maintaining the e mixing requirements as when mixing with a drill. Once mixed, if a wetter consistency quired, increase the water content up to a maximum of 3 gallons, 4 pints (14 liters). z: Do not overwater as excessive water will cause severe bleeding, retardation and will ce the strength and performance of the mortar. Extending ("bulking") the mortar with tional aggregate or adding any other material into the mix is not permitted as this may act the fire resistance of the mortar. The time of application, the concrete substrate must be SSD (saturated surface dry) wi
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6
ication equipment should include wet-spray, screw pump systems such as an Aliva® roto em, Putzmeister®, Bunker® spray concrete system or similar. chieve the optimum physical characteristics, the spray nozzle must be handled by a
ed and experienced operator. The a risk of vibration or mechanical damage to the surface exists and for overhead ap- tions, the use of a light wire mesh reinforcement is recommended in order to preven debonding of the mortar layer.
ication equipment: Spray Screw pump. Iforcement: Where there is a risk of vibration or mechanical damage to the surface, the of a light wire mesh reinforcement is recommended in order to prevent any debonding e mortar layer. Iter ACI 308 requirements for cementitious materials, curing is required. To achieve prmance consistent with the properties on this technical data sheet, curing must be be by recognized curing methods such as mist spray or water/damp burlap, white poly- lene film or approved curing compound. Curing must start immediately after finishing. ect freshly applied mortar from direct sunlight, wind, rain and frost.
Substrate Temperature +5°C min. / +35°C max. Ambient Temperature +5°C min. / +35°C max. The surface of the freshly applied mortar can be finished for up to one hour after application dependent on the temperature and humidity. Wire mesh reinforcement required when applied in thicknesses greater than 40 mm (1.57 in.) and for overhead applications.

- Sikacrete[®]-213F must not assume any load-bearing function
- Sikacrete[®]-213F is a sacrificial layer and must be replaced in the event of a fire
- Sikacrete[®]-213F must not be exposed to weathering (frost, freeze/thaw, moisture) without additional protection

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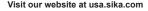
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Product Data Sheet Edition 11.20.2015 SikaTop® Seal 107

SikaTop[®] Seal 107 Flexible, waterproofing and protective slurry mortar

Description	SikaTop [®] Seal 107 is a two-component, polymer-modified, cementitious waterproofing and protective slurry mortar for concrete. It is slightly flexible to tolerate fine cracks and suitable in both interior and exterior applications.		
Advantages	 SikaTop® Seal 107 provides the following beneficial properties: Improves the watertightness of water-containing concrete tanks, reservoirs, and clearwells. Protects against water penetration, yet water vapor permeable (breathable). Excellent freeze/thaw resistance. Good adhesion to sound, prepared substrates. Easy and fast mixing and application. Good abrasion resistance. Protects against concrete carbonation (80 mils SikaTop® Seal 107 is equivalent to 6 inches of concrete). Can be mixed to slurry or trowelable consistency. Improves concrete/masonry appearance. Available in concrete gray and off-white. SikaTop® Seal 107 is ANSI/NSF 61 potable water compliant. 		
Where to use	 Horizontal surfaces subjected to light foot traffic (balconies). For waterproofing of drinking water, tanks, reservoirs, and clear wells. For internal and external waterproofing and damp-proofing concrete, mortar blockwork and brickwork. For protection of concrete structures against the deleterious effects of deicing salts and freeze/thaw cycles. For sealing "hairline" cracks in concrete structures not subject to movement surfaces. For interior and exterior waterproofing of basements. Vertical surfaces. 		
Coverage	 For damp-proofing: apply one coat at 40 mils. For waterproofing: apply two coats at 40 mils per coat. Theoretical thickness (wet film) on smooth substrates: 40 ft.²/gal. = 40 mils (2 kg./m² = 1 mm). The above figures are theoretical and do not allow for substrate profile and wastage. Three coats may be required in areas of extremely high water infiltration. 		
Packaging	44 lb. unit - when mixed yields 2.65 gallons (10 l) Component 'A' - 1 gal. plastic jug; 4/carton. Component 'B' - 35.5 lb. multi-wall bag.		
	Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT,		
	TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.		
	Shelf Life 1 year when unopened.		
	Storage Protect Component 'A' from freezing and Component 'B' from moisture.		
	Store dry at 40°- 95°F (4°- 35°C). Condition material to 65°-75°F conditions before using.ColorsConcrete gray and off white.		
	Mixing Ratio Component 'A': Component 'B'. Slurry consistency 1:4.1 by weight (full unit)		
	Trowelable consistency 1:4.5 by weight (90% liquid to full bag)		
	Density (wet mix) 125 lbs./ft. ³ (2.0 kg./l.) = 16.6 lbs./gal. Working Time Approximately 60 minutes at 68°F; Approximately 30 minutes at 86°F		
	Compressive Strength (ASTM D-695) @ 28 days		
	Type White 3,000 psi (20.7 MPa)		
	Type Gray 3,400 psi (23.4 MPa) Tensile Strength (ASTM C-307) 28 days		
	White 870 psi (6.0 MPa)		
	Gray 990 psi (6.8 MPa)		
	Bond Strength (ACI 503R-30 Modified): Pull-off Test 28 days 180 psi (1.25 N/mm²) Flexibility (ASTM D522 modified) Approximately 25%		
	Watertightness under hydrostatic pressure (DIN 1048 mod.)		
	Water Pressure Penetrated Water Water Absorption feet (bar) grains (grams)		
	ft ² • hours (m ² • hours)		
	16 (0.5) 0 (0) 0 (0)		
	33 (1) 15 (1) 3 (2) 99 (3) 31 (2) 10 (7)		
	99 (3) 31 (2) 10 (7) Rendering mortars absorbing less than 91 grains/ft. ² • h (64 grams/m ² • h) are considered watertight.		
	Vapor Permeability (ASTM E-96) U.S. perms: 28 days 18 (not a vapor barrier)		
	Carbon Dioxide Diffusion Coefficient (µCO ₂) Approximately 35,000, equivalent to 6 inches of concrete		
	Water Vapor Diffusion Coefficient (μ H ₂ O) Approximately 500 ("breathable")		
R	PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND		
	INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE-		



Heur to He		
How to Use		
Substrate Preparation	Concrete, mortar and masonry surfaces must be clean, free from grease, oil and loosely adhering particles. All surface must be as true and flat as possible. An open-textured, sandpaper-like substrate is ideal (CSP-3). All surfaces must saturated surface dry (SSD), with no standing water at time of application. It is necessary to stop water ingress prior to t application of SikaTop [®] Seal 107. Use a quick setting, waterproof slurry (SikaSet [®]) to seal water leaks.	
Mixing	The consistency of the mix can be altered by reducing the amount of Component 'A' (liquid) to be used. Under normal circumstances, when the full quantities of both components are mixed together, a slurry consistency will result. For a trowel able consistency use only 90% of component 'A'. Mix in a clean container by slowly adding the powder component to the liquid component and mixing with slow speed drill and mixing paddle.	
Application	SikaTop [®] Seal 107 can be applied by trowel, notched trowel, stiff bristle, or spray equipment. Work the material well into the prepared substrate, filling all pores and voids.	
	For brush consistency: Apply the first coat of SikaTop [®] Seal 107 with horizontal brush strokes and leave to harden (4 to 8 hours). Apply the second coat with vertical brush strokes.	
	For trowel consistency: Apply the first coat with a notched trowel and leave to harden (4 to 8 hours). Apply the second coat with a flat trowel.	
	For spray application: Use a hopper gun spray equipment, textured sprayer (e.g. Texspray E110c), or a rotor/stator pump equipment. Allow the first coat to harden (4 to 8 hours) prior to the application of the second coat. As soon as the mortar layer starts to set, a uniform surface texture can be obtained by rubbing the surface with a fine sponge or a plastic trowel. Do not overwork SikaTop® Seal 107 during finishing and avoid the use of additional water. [Where required, a third coat of SikaTop® Seal 107 may be applied no later than 24 hours after the second coat (in this case, do not trowel or sponge finish the second coat). If intercoat period exceeds 24 hours, light grit blasting is required prior to further application].	
	Balcony Waterproofing Layer: Fill in any spalled areas in the existing substrate with the appropriate Sika repair mortar as required. Apply an appropriately sized closed cell backer rod along transition (wall-slab) to prevent three-sided adhesion. Apply a continuous cant bead of Sikaflex [®] 11-FC or Sikaflex [®] 2C, to a depth of 1/8" minimum and 1/2 inch thickness. Allow sealant to cure sufficiently. Substrate must be SSD with no standing water at time of application. Apply a 1/16" thick layer of SikaTop [®] Seal 107 over the entire balcony. While the material is still wet apply a "360 degree pull" non-alkaline, woven fiberglass mesh to reinforce the 107 layer along static hairline cracks, wall to slab transitions and patched areas. Using trowels remove any wrinkles in the mesh by forcing down into the SikaTop [®] Seal 107. Ensure the mesh is completely embedded and covered with SikaTop [®] Seal 107. If any areas are not covered apply additional SikaTop [®] Seal 107 over top of mesh to cover. Trowel to a smooth uniform finish. Allow curing so that surface can take foot traffic without harming the coating.	
Tooling & Finishing	Curing: As with all cement based products, curing is important. Protect newly applied product against direct sunlight, wind, rain and frost.	
Limitations	 If rain is anticipated within 1-2 days after application, the surface should be protected in order to prevent streaking. Not an aesthetic coating. Minimum ambient and substrate temperatures are 45°F (7°C) and rising at the time of application. Maximum application thickness per coat = 80 mils (2 mm). Do not apply less than 20 ft.²/gal. = 1 m²/liter. As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur[®] Hi-Mod 32. Allow 2 days of air curing before subjecting SikaTop[®] Seal 107 to submersion. 	

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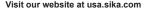
SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.

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Product Data Sheet Edition 9.29.2015 Sika® Primer MB

Sika[®] Primer MB

Solvent Free, Epoxy Primer and Moisture Barrier for use with SikaBond Adhesives, SikaLevel underlayments and other flooring systems on critical substrates

Description	Sika Primer MB is a 2-component, solvent-free, low-viscosity, epoxy primer for use with under ALL flooring products, wood, carpet, vinyl, LVT, self-leveling underlayments, floating floors, and other flooring systems that require protection from sub-floor moisture.
Where to Use	Moisture barrier to help control moisture propagation in cementitious substrates with a moisture content not exceeding 6% by Tramex Method and residual moisture up to 100% R.H. or 25 lbs./1000 sq.ft./24 hrs.
	For substrate consolidation on concrete, cement and gypsum screeds.
	Adhesion promoter for old and new adhesive residues in conjunction with other Sika products.
Advantages	 Solvent-free (100% solids)
	 Easy roller applied application, low viscosity
	Convenient, easy to mix packaging
	Shorter construction periods
	 Excellent penetration and stabilization of the substrate
	Reduction of adhesive consumption
	Suitable for use on floors with radiant heating
	 Compatible with SikaBond wood flooring adhesives, SikaLevel MB Excel, and other underlay ment systems

Can be used below floating floors

Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf life	2 years from date of production if stored properly in undamaged sealed containers		
Storage Conditions	Store dry at 50°F (10°C) - 77°F (25°C)		
Color	Blue tint		
Viscosity			
Chemical Base	Two component epoxy		
Density	9.14 lbs/gal (1.1 kg/l)		
Cure Time	Minimum curing time, prior to walking on primer/or for applying SikaBond		
	Adhesives:		
	at 50°F (10°C) 18 hours		
	at 73°F (23°C) 8 hours		
	at 86°F (30°C) 6 hours		
	left on the substrate for more than the maximum allowable open time at 36 hours the surface must be mechanically prepared (i.e. sanded) solvent wiped before		
Service Temperature	-40°F to +158°F		
Compressive Strength	10,000 psi (after 7 days, at 73°F [23°C] and 50% RH)		
Shore D Hardness	83 (after 7 days, at 73°F [23°C] and 50% RH) (mixed A&B)		

 Shore D Hardness
 83 (after 7 days, at 73°F [23°C] and 50% RH) (mixed A&B)

 Water Vapor Permeability
 0.06 g/m2-24hour-mmHG

per ASTM E-96 Standard Test Method of Water Vapor Transmission of Materials



Coverage	250-300 sq.ft. per pail, depending on substrate porosity			
	When used as an adhesion promoter or surface consolidator alone, coverage will be approximitly 400-450 sq.ft. per pail depending on substrate.			
	MUST produce a monolithic, pinhole-free finish with a continuous film. The need for multiple coats is directly related to surface absorption. Dense substrates can consume less material and absorbent substrates can consume more material.			
Packaging	2.64 gallon pails	4 gallon pails		
How to Use				
Surface Preparation	Substrate must be clean, dry, sound and homogeneous, free from oils, grease, dust, and loose or friable particles. Paint, laitance, and other poorly adhering contents must be mechanically removed.			
	Substrate must have an open textured surface to allow Sika Primer MB to penetrate. (i.e. Blast cleaning, grinding are considered acceptable means to achevie the desired surface profile but . Acid and chemical etching are not acceptable)			
	 At least 50 % of the surface area must be cleared of residual adhesive and cutbacks. (i.e. by grinding or mechanical substrate preparation) 			
	 Minimum compressive strength > 1160 psi. Tensile Bond strength > 116 psi. The floor must be cleaned with an industrial vacuum prior to installation of the Sika Primer MB. 			
	 Consult level/patch system manufacturer regarding priming prior to the placement of materials. Applicator must always verify that preparation of the surface is sufficient prior to using Primer MB or patch/level compound. 			
	 On fiber reinforced concrete, fibers should be flamed off the surface prior to application of Sika Primer MB as a moisture barrier. 			
	Please contact Sika Technical Service for any questions related to your project.			
	Conditions/Limits: Substrate temperature during laying and until Sika® Primer MB has fully cured should be above 50°F (10°C) and in case of radiant floor heating below 86°F (30°C). Application temperature of substrate must be minimum 5°F (3°C) above the measured dew point temperature. Substrate Humidity: Subfloor moisture content should not exceed 6% when measured with a Tramex moisture meter or 4% when measured using the CM method.			
Mixing	Add one full can of Component A to one full can of Component B then mix with an electric drill and mixing (Jiffy Mixer type) paddle at a low speed to reduce air entrainment (300-400 rpm). Using a paint stick or similar is not sufficient to mix the primer. A minimum mixing time of 3 minutes shall be observed; mixing shall continue until a homogeneous mix has been achieved. Scrape sides of pail with paint stick or paddle to ensure all contents are thoroughly mixed together. Unmixed material applied to the floor will not cure properly.			
Application	 Apply Sika Primer MB uniformly (in 2 direct ensuring that a continuous coat is achiev finish) 	,		
	 Pour contents of pail onto the floor for reduce working time. 	pest working time. Attempting to	o work from the pail wi	
	Application	Recommended Coatings	Results in	
	Moisture barrier only	Minimum 1x	Mirror like finish	
	Substrate consolidation only	Minimum 1x	Good penetration	
	Adhesion promotion only	Minimum 1x	Mirror like finish	
	Moisture barrier + substrate consolidation	Minimum 2x	Mirror like finish	
	Moisture barrier + adhesion promotion	Minimum 2x	Mirror like finish	
	A waiting time of > 8 hours and < 36 hours			

When used as a primer for helping moisture mitigation in cement substrates prior to applying SikaLevel-125 & SikaLevel-315, prepare the substrate mechanically as in accordance with the guidelines stated in subtitle "Substrate Preparation". Apply the first coat at 75-115 sq. ft. gal. Apply the second coat at 150-225 sq. ft. gal. after a minimum of 8 hours and a maximum of 36 hours after the first coat is applied. Broadcast to refusal oven dried silica sand (20/30) on the second coat immediately. Sweep sand once the epoxy is cured. Apply SikaLevel-125/315 on cured epoxy

Alternately, when used in conjunction with the SikaLevel MB Excel system, prepare the substrate mechanically as in accordance with the guidelines stated in subtitle "Substrate Preparation". Apply the first coat at 75-115 sq. ft. gal. Apply the second coat at 150-225 sq. ft. gal. after a minimum of 8 hours and a maximum of 36 hours after the first coat is applied. Apply SikaLevel 02 EZ Primer at 350-500 sq. ft. gal. after a minimum of 8 hours and a maximum of 36 hours after the second



	Pot Life (Max. open time), If primer is left in pail after mixing:
	at 50°F (10°C) \sim 60 minutes
	at +68°F (20°C) ~ 30 minutes
	at +86°F (30°C) ~ 15 minutes
Removal	
	Clean all tools and application equipment with cleaning solvent (Xylene, MEK are effective). Hardene cured material can only be removed mechanically.
Limitations	 Proper coverage must be used to achieve moisture barrier properties. Sika Primer MB will not act as a moisture barrier for gypsum screeds. Sika Primer MB does not prevent moisture occurring between the Primer MB and the floating floor due to secondary sources of moisture or acclimation, e.g. water condensation. Sika Primer MB is not suitable for use with bonded systems due to possible curing and adhesion problems. Gypsum based sub-floors are very susceptible to excess moisture and will be degraded if exposed to excess moisture from below or above. Sika Primer MB will not prevent damage to gypsum based sub-floors that are exposed to excess moisture levels. Sika recommends the use of Portland Cement underlayments for best results. Consult level/ patch system manufacturer regarding priming and other application/limitation guidelines prior the placement of materials. Sika Primer MB will not prevent hydrostatic pressure. Floor covering manufacturer's and Wood flooring manufacturer's recommendations, like room humidity levels and wood acclimation requirements should be strictly followed. Sika does not make any standing recommendations as to the structural integrity of old adhesive residues or sub-flooring materials that are not manufactured by Sika. Sika Primer MB is left on the substrate for more than the maximum allowable open time of 36 hours, prior to placing the adhesive, the surface must be thoroughly cleaned and mechanically prepared (i.e. screened sand) and solvent wiped. Failure to do this, may result ir adhesion problems. For detailed instructions consult the Product Data Sheets or contact our Technical Service. When used in conjunction with SikaBond Wood Floor Adhesives and floating floors, Sika Primer MB does not need to be broadcasted with sand.
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Sika Canada Inc. 601 Delmar Avenue Pointe Claire Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792 **Product Data Sheet** Edition 10.1.2014 SikaLevel®-01 Primer

SikaLevel[®]-01 Primer

Concrete primer and sealer for use with SikaLevel®-125 and SikaLevel®-315.

SikaLevel [®] -01 Primer is a one-part, water-dispersed and solvent-free, acrylic-based solution used to prime and seal floor surfaces prior to the application of SikaLevel [®] -125 and SikaLevel [®] -315 underlayment.		
Use as a primer/sealer for absorbent substrates including concrete and cement screeds. Particularly suitable as an adhesion promoter and surface sealer beneath SikaLevel®-125 and SikaLevel®-315, enhancing the bond and integrity of the underlayment when applied onto porous substrates.		
 Ready to use, no dilution required. Water-based and solvent-free. Penetrates substrate to reduce outgassing and formation of bubbles in the underlayment. Prevents water loss from the underlayment into the substrate. Quick-drying and fast film formation to increase productivity. Achieves excellent bond values throughout the recommended range of application temperatures. Effectively seals concrete surfaces in a single, economic operation. 		
Approximately 325 to 500 ft. ² gal or 8 to 10 m ² /ltr approximately. Coverage figures do not include allowance for surface profile and porosity or material waste.		
1 U.S. gal. jug		
RESULTS MAY DIFFER BASE	rial and curing conditions @ 73°F (23°C) and 50% R.H.) D UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, DN METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.	
	2 years in original, unopened container. Protect from high heat and freezing; if frozen, discard.	
Storage Conditions		
	if frozen, discard. Store dry at 40°-77°F (5°-25°C). Condition material to 65°-75°F	
_	and seal floor surfaces pri Use as a primer/sealer for suitable as an adhesion pr hancing the bond and inte Ready to use, no dilutio Water-based and solve Penetrates substrate to Prevents water loss from Quick-drying and fast fil Achieves excellent born Effectively seals concre Approximately 325 to 500 for surface profile and porc 1 U.S. gal. jug	

How to Use

Surface Preparation

The substrate must be dry, clean and sound before priming and applying the underlayment materials. Remove all existing treatments such as coatings, sealers, wax, latex compounds, impregnations and curing agents, together with all contaminants i.e. dirt, dust, laitance, grease, oils, and foreign matter, which will interfere with the penetration of a primer and the adhesion of an underlayment. Prepare concrete and cement substrates by mechanical means, such as shotblasting, sandblasting, waterjetting, scarifying, or other appropriate methods, to achieve an open-textured, fine-gripping surface (ICRI - CSP 3 minimum). Weak concrete should be removed and surface defects such as blowholes and spalls fully exposed and repaired with a suitable Sika mortar prior to priming and levelling. All cracks and holes should be similarly filled to prevent loss of coverage or seepage of the primer through to lower areas. Consult Sika Technical Service for recommendations.

All loose friable material, including preparation residue, must be completely removed using a vacuum before application of the SikaLevel®-01 Primer. The compressive strength of the concrete substrate should be at least >3000 psi / 20.7 MPa at 28 days with a minimum tensile strength of >145 psi/ 1.0 MPa at the time SikaLevel®-01 Primer is applied. Moisture vapor emission rates of the substrate should comply and meet the requirements of the proposed floor covering. Please consult the manufacturer of the final floor finish for recommendations. Careful consideration should be given to the selection of the method of mechanical surface preparation and the



timing of the primer an	In the underlayment application . Immediately following mechanical preparation on some excessively porous substrates, Outgassing will increase for a short period of time (approx. 48 hours) until an equilibrium in slat vapor pressure and the ambient environment is reached. Before overall installation begins, Sika recommends the application of several small test patches to determine primer application requirements and acceptability or final product performance. In general a one-coat application of the SikaLevel®-01 Primer should be sufficient however, allowance should be made for double priming on excessively porous substrates. Where multiple coats are required, do not apply excessive material.		
Mixing	Before applying SikaLevel [®] -01 Primer, thoroughly shake the container in which the material is supp agitate the contents, ensure all solids are distributed throughout the dispersion and a uniform consis is achieved.		
Application	Ensure that both concrete/cement based substrates and ambient temperatures are between (50°F)10°C 95°F(35°C) before commencing the application of SikaLevel®-01 Primer. The stated application temperature are to be achieved before priming and should be maintained for a period of at least 3 days after installation the underlayment. Should colder conditions prevail, make allowance for the use of indirect and vented hear ers to achieve and maintain the application temperature required. Where temperatures exceed 86°F(30°C refer to and follow ACI hot weather application and protection guidelines.		
Tooling & Finishing	Apply SikaLevel®-01 Primer by brush or roller (long nap roller for rougher surfaces), working the material int the prepared substrate. Typically, one single application is required; however, porous substrates may requir two or more coats of primer to effectively seal the surface. Ensure coverage is at most 325 to 500 ft²/US gal, 1 to 12 m²/ltr per coat, depending upon the substrate, but ponding of the primer on the surface must be avoide and puddles must be removed. Where multiple applications are necessary to seal the surface, allow previou coats to become tack-free before applying additional primer. When first applied, SikaLevel® Primer appear white; once dry, it is clear. This facilitates quality control in terms of complete coverage and clearly confirm when the underlay can be installed.		
Over Painting	To ensure proper adhesion, SikaLevel®-125 and SikaLevel®-315 underlayment is applied within 24 hours the application of the SikaLevel®-01 Primer, but only once the primer is clear (without milky spots) and dry the touch (typically after a minimum of 2 hours drying time under normal environmental conditions). Low temperatures and/or humid conditions may extend the drying time between priming coats or before installation of the underlayment.		
Limitations	 For interior use only. Primer developed for SikaLevel®-125 and SikaLevel®-315. Condition material to 65-75°F (18-24°C) before using. Do not apply to substrates at temperatures below +(50°F)10°C as this will slow the drying and effectiveness of the primer. Do not apply where the relative humidity of the substrate exceeds 75% as this will limit the efficiency of the primer. The substrate should be surface dry with relative humidity of surrounding air low enough to allow efficient drying of the primer. Ponding of the primer must be avoided; ensure even distribution by brush or roller to work the primer inter the substrate. Low temperature or high humidity will extend the drying time and the waiting time before applying the underlayment. SikaLevel®-01 Primer does not form a moisture barrier. For proper moisture mitigation, consult Sika Technical Services. 		

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CAUTION	IRRITANT. May cause eye and skin irritation.	
Handling & Storage	Avoid direct contact. Wear personal protective equipment (chemical resistant goggles/gloves/clothing) to prevent direct contact with skin and eyes. Use only in well ventilated areas. Open doors and windows during use. Use a properly fitted NIOSH respirator if ventilation is poor. Wash thoroughly with soap and water after use. Remove contaminated clothing and launder before reuse.	
First Aid	Eyes – Hold eyelids apart and flush thoroughly with water for 15 minutes. Skin – Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. Inhalation – Remove to fresh air. Ingestion – Do not induce vomiting. Dilute with water. Contact physician. in all cases, contact a physician immediately if symptoms persist.	
Clean Up	Use personal protective equipment (chemical resistant gloves/ goggles/clothing). Without direct contact, sweep up spilled or excess product and place in suitable sealed container. Dispose of excess product and container in accordance with applicable local, state, and federal regulations. Hardened material may have to be manually or mechanically removed.	

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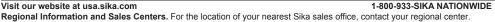
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Sika[°] Level-02 EZ Primer

Acrylic Primer for use with Sika® Level underlayments on difficult substrates

Description	Special Acrylic Primer for use on sound, smooth and non-porous substrates in interior areas. Applied prior to the use of Sika [®] Level underlayments and patching compounds on epoxy, ceramic tiles, old vinyl, linoleum, rubber and other coverings.		
Where to Use	Sika [®] Level-02 EZ Primer is s	uitable for use on:	
	 Smooth and sound substrates e.g.: terrazzo, ceramic tiles, natural stone covering Epoxy based moisture control membranes Old coatings and sealers Old, smooth and sound concrete surfaces Metal substrates e.g. channelled plate Well fitted, vacuumed and sanded vinyl, linoleum and rubber coverings in domestic area: Thermoplastic and semi-flexible tiles Well fitted quartz-vinyl coverings in domestic and commerical areas 		
Advantages	 Increased bond to substrate High coverage Single component; ready for use Quick dry time Low VOC Solvent-free Suitable for use with radiant heating Low odor 		
Coverage	Unit yields approx. 350 - 500) sq.ft. per gallon depending upon actual porosity of the prepared substrate.	
Packaging	1 gal. pail		
Product Shelf Life	1 year in original, unopened container		
Product Storage	Store in cool, frost-free conditions with temperatures above 40°F (4.5°C)		
	RESULTS MAY DIFFER BASED UPON	and curing conditions @ 73°F (23°C) and 50% R.H.) STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, AP- IS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.	
	Basis	Acrylic dispersion with additives	
	Color	Mint	
	Drying time	Approx. 1 - 2 hours prior to application of underlayments	
	Storage temperature	Between 40°F - 95°F (5°C - 35°C)	
	Application temperature Temperature resistance	• Between 40°F - 95°F (5°C - 35°C) Up to 122°F (50°C)	
How to Use			
Surface Preparation	Subfloors must be smooth, sound, clean, dry and free of any contaminants which may hinder adhesion Surface treatments or any "friable" areas of the subfloor must be mechanically removed and the subfloor repaired with Sika leveling compounds as required. On absorbent substrates use Sika Primer MB. All slab on or below grade level must be known to have an intact vapor retarder directly beneath or on top of the concrete in conformance to the relevant standards. If moisture readings are above 75%RH or 3 lbs./1000 sq.ft./24 hrs. then use of Sika Primer MB is recommended to suppress residual moisture (see data sheet) Old water-soluble adhesives should be removed completely; old water-resistant adhesives should be me chanically removed as far as possible. The complete mechanical removal of cutback (i.e. grinding, sanding blasting) can be hazardous as old cutback adhesive may contain asbestos. Do not sand or grind adhesive residue. Harmful dust may result. Inhalation of asbestos dust may cause asbestosis or other seriou bodily harm. Please consult the adhesive manufacturer and all applicable government agencies for rule		
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	and regulations concerning the removal of flooring and adhesives that contain asbestos. Prime remaining adhesive residues accordingly.
	Old vinyl, linoleum and rubber coverings (up to 2.5 mm). Substrates consisting of old vinyl coverings with cushioned backings are not suitable. In heavy loaded areas (e.g. hospitals), laying on top of old coverings is not recommended. Soft old coverings are not suitable for installation of parquet. Please consult Sika technical service. Old coverings must be well fitted to the substrate. Poorly attached coverings should be removed. Vinyl, linoleum and rubber coverings should be thoroughly cleaned and sanded. Quartz vinyl coverings should be cleaned thoroughly. As it is only possible to partially test the full surface bond on old coverings, especially on larger surfaces, we recommend that a mock be installed prior to total application.
Mixing	Prior to installation, stir Sika [®] Level-02 EZ Primer before use for consistent dispersion. Apply undiluted.
Application	Apply primer with a suitable tool, e.g. a 1/4" nap roller, paintbrush or brush, short-pile roller or pad applicator. Avoid formation of puddles. Ensure that both concrete/cement based substrates and ambient temperatures are between 40°F - 95°F (5°C - 35°C) before commencing the application of Sika® Level-02 EZ Primer. The stated application temperatures are to be achieved before priming and should be maintained for a period of at least 3 days after installation of the underlayment. Should colder conditions prevail, make allowance for the use of indirect and vented heaters to achieve and maintain the application temperature required. Where temperatures exceed 86°F(30°C), refer to and follow ACI hot weather application and protection guidelines. Clean tools in water immediately after use. Apply SikaLevel underlayments or reprofiling mortars once SikaLevel 02 EZ is dry to the touch, typically 1-2 hours after primer application
Limitations	 For interior use only. Not to be used as a primer for Sikafloor resins Do not apply to substrates at temperatures below 41°F (5°C) as this will slow the drying and effectiveness of the primer. Do not apply Sika[*] Level-02 EZ Primer or Sika[*] Level underlayments onto chipboard, particle board, hardboard, metal, gypsum or dimensionally unstable substrates. Where substrates exhibit a Tramex reading over 4% or a Moisture Vapor Emission Rate (MVER) of over 3 lbs. per 1,000 ft2 per 24 hours using a calcium chloride test (ASTM F-1869), pre apply Sikafloor MB Primer. Consult the manufacturer of the final floor covering to identify the maximum permitted MVER and retained moisture content for their product. Do not apply where the relative humidity of the substrate exceeds 75% as this will limit the efficiency of the primer. The substrate should be surface dry with relative humidity of surrounding air low enough to allow efficient drying of the primer. Sika[*] Level-02 EZ Primer does not form a moisture barrier. For proper moisture mitigation, consult Sika Technical Services. Product should not be used if exposed to freezing temperatures. Not suitable on polyolefin and floor coverings with Sealers which are not removable with basic detergent chemicals. If in doubt test in a small area. Do not apply SikaLevel underlayaments or reprofiling mortars while SikaLevel 02 EZ is still wet or tacky

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Construction



Sika[®] Level SkimCoat

Fast setting, cement based smoothing and finishing compound

	repair or reprofiling of conc ceramic or quarry tiles before	ne-component, easy to use and fast drying, cementitious skim mortar ideal for the crete, approved wood subfloors, gypsum based subfloors and correctly prepared ore the installation of Sika Level underlayments or final floor coverings. Can be dge as well as filling voids and leveling defects up to 1/2" (0-13mm) in depth.
Where to Use	 Sika Level Underlaymer Repair minor defects, ho To pre-fill non-moving jo To skim correctly preparadhesive residue. such Used to re-profile rough levelers or floor finishes 	oles and cracks in concrete and wood subfloors. ints and seams in concrete and wooden substrates. red ceramic or quartz tiles and encapsulate stable, non-bleeding, water resistan as cutback substrates or subfloor surfaces from feather edge to 1/2" (13 mm) prior to applying er MB, not to exceed 1/8" (3 mm), within 36 hours of primer application
Advantages	 Zero VOC's. Repairs new and renova Good adhesion to subst Rapid setting; receives p Excellent standard of fin 	chieve a true feather edge for only), no moisture vapor emission limitations on properly prepared concrete.
Coverage	33 sq ft. at 1/8 inch. 110 sq	ft or more at feather edge Coverage will vary based on substrate smoothness
Packaging	10 lb bag. Pack of 4 bags.	
	Typical Data (Mater	ial and curing conditions @ 70°F (22°C) and 65% R.H.)
	Shelf Life	1 year in original, unopened packaging
	Storage Conditions	Store dry at 41°-90°F (5°-32°C). Protect from moisture; if damp, discard material.
	Application Temperatu	Ire Substrate and ambient room temperatures must be above 50°F (10°C) and below 86°F (35°C).
	Color	Gray
	Mixing Ratio	Mix entire contents of bag (10 lbs/4.5 kg of powder) with up to 2 qts. (1.9L) of water.
	Application Thickness	Feather edge - 1/2 in. (13 mm)
	Application Thickness Working Time	Feather edge - 1/2 in. (13 mm) 10 to 20 min.
	Working Time Setting Times (ASTM 266) Compressive Strength Flexural Strength 28 da	10 to 20 min. Initial Set - 20 to 30 min. Final Set - 30 to 60 min. 28 days (ASTM C109 mod.) 3700 psi (25 N/mm²) ays (ASTM C348) 1300 psi (7 N/mm²)
	Working Time Setting Times (ASTM 266) Compressive Strength	10 to 20 min. Initial Set - 20 to 30 min. Final Set - 30 to 60 min. 28 days (ASTM C109 mod.) 3700 psi (25 N/mm²) ays (ASTM C348) 1300 psi (7 N/mm²) 84)

PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE-PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

How to Use	.
Surface Preparation	All concrete, cement and ceramic/quarry tile substrates must be dry, clean and stable before applying the skim mortar compound. Remove all existing treatments such as coatings, sealers, wax, latex compounds, impregnations and curing agents, together with all contaminants and loose matter e.g. dirt, dust, laitance, grease, oils, and foreign matter, which will interfere with the adhesion of Sika Level SkimCoat. Prepare concrete, cement and ceramic/quarry tile substrates by mechanical means, such as light shotblasting, sanding or other appropriate methods, to remove weak material and achieve a matt, glaze free open textured, fine-gripping surface. Vacuum substrates thoroughly.
	All subfloors must be structurally stable and well bonded or fastened. Plywood subfloors must consist of exterior-grade wood which complies with Group 1 CC Type, is engineer approved and either recommended or warranted by the wood manufacturer or final floor covering supplier.
	Ensure wooden floors are well ventilated from below. Moisture Vapor Emission Rates of the substrate should comply and meet the requirements of the proposed floor covering. Test substrates for moisture content and consult the manufacturer of the final floor finish for advice.
Mixing	As with all prebagged cement products, some settlement may have occurred during storage and transporta- tion and dry blending of the material is recommended. Mix entire contents of bag (10 lb of powder) with up to 2 quarts (1.9 l) of water. For mixing less than a full bag at once, use up to a ratio of 2:1 part water. Pour cool, potable water into a suitably sized and clean mixing container, using a calibrated measuring jug, or similar, to ensure strict control of the water content (avoid over-watering). Cool water (70°F/21°C) serves to maximize the pot life and working time. Slowly add Sika Level SkimCoat powder to the water using a high speed elec- tric mixer (min 600 rpm) and mortar/grout mixing paddle to blend water and powder for 2-3 minutes. Smaller volumes can also be mixed by hand for 2-3 minutes. Mix until a uniform, lump free and smooth consistency is achieved.
	Note: Do not overwater and avoid entrapment of air and excessive mixing as this will impact performance. Do not mix more mortar than can be used within the stated pot life and working time, taking into consideration ambient temperatures.
Application	The stated ambient and substrate application temperatures are to be achieved before works are started. Where temperatures exceed 86°F (30°C), refer to and follow ACI hot weather application and protection guidelines. Using a flat edge steel trowel, apply Sika Level SkimCoat immediately following mixing. Ensure that the compound is tightly trowelled into all defects, seams, and non-moving joints or across roughened surfaces as required. Where defects, details or roughened surfaces require repair or reprofiling to a depth greater than 1/2" (13 mm), use the appropriate SikaLevel [®] self levelling underlayment. Consult Sika Technical Services for advice or alternative recommendations.
Limitations	 For interior use only. Not suitable for exposed repairs or resurfacing. Do not exceed the recommended water dosage and use clean potable water. Do not apply onto dimensionally unstable substrates. Do not use on presswood, flakeboard, metallic or similar substrates and always comply with the final floor manufacturer's recommendations or instructions as to substrate or subfloor standards. Not suitable for use on water soluble adhesive residues or those which suffer from migration/bleeding. Do not use as a large or deep surface leveler. Do not expose to adverse drying conditions while curing. Protect from other trades, traffic, dust, dirt, high ambient temperatures and direct sunlight until final floor covering is completely dry. Sika Level SkimCoat must be covered with an underlayment or final floor covering. Not suitable for applications where hydro static pressure is present.

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KEEP CONTAINER TIGHTLY CLOSED, KEEP OUT OF REACH OF CHILDREN, NOT FOR INTERNAL CONSUMPTION, FOR INDUSTRIAL USE ONLY, FOR PROFESSIONAL USE ONLY.

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALL NOT BY RESPONSIBLE. CALLING 201-933-8800. 1-800-933-SIKA NATIONWIDE

Visit our website at usa.sika.com

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Regional Information and Sales Centers. For the location of your nearest Sika sales office, contact your regional center. Sika Corporation 201 Polito Avenue Lyndhurst, NJ 07071 Phone: 800-933-7452 Fax: 201-933-6225

Sika Canada Inc. 601 Delmar Avenue Pointe Claire Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792

Sika Mexicana S.A. de C.V. Carretera Libre Celava Km 85 Fracc. Industrial Balvanera Corregidora, Queretaro C.P. 76920 Phone: 52 442 2385800 Fax: 52 442 2250537





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Sika[®] Level Rapid Patch

Fast-setting cementitious patch for use with Sika[®] Level underlayments and general floor coverings to repair or reprofile old, damaged or uneven floors

Description	Sika [®] Level Rapid Patch is a one-component, polymer modified, easy to use and fast drying cementitious patching mortar ideal for the repair or re-profiling of concrete, approved wood subfloors and correctly pre-pared ceramic or quarry tiles before the installation of Sika [®] Level underlayments or final floor coverings. Easily applied and with both high adhesion values and fine finishing qualities it can be used fill and level defects from 1/2 inch (0-13 mm) in depth.
Where to Use	 Used to repair minor defects, holes and cracks in concrete and wood subfloors before installing underlayments or final covering To pre-fill non-moving joints and seams in concrete and wooden substrates. Used to re-profile rough substrates or subfloor surfaces from feather edge to 1/2 inch (13 mm) prior to applying levelers or floor finishes. Used as a parge coat to fill bug holes and surface voids creating a contiguous surface.
Advantages	 Easy to prepare and quick to apply. Excellent high build properties. Zero VOC content. Repairs new and renovates old floors Good adhesion to substrates, subfloors and stable adhesive residue. Rapid setting; receives primers, levelers, adhesives and coverings without delay. Excellent standard of finish can be achieved to allow direct application of coverings.
Packaging	25 lb (11.3 kg) bags.

Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life Storage Conditions		• •	ckaging. Protect from moisture; if damp,
Application Temperature			
Color	above 50°F (10°C) ar Gray	nd below 86	6°F (35°C).
Mixing Ratio	Mix entire contents of with up to 1 gal. (3.75	0.	s [11.3 kg] of powder) ater.
	For part mixes, use u water by volume.	p to 3 parts	s powder with up to 1 part
	For a creamier mix, u	se less wa	ter.
Application Thickness	Feathere	edge - 1/2 i	n. (13 mm).
Working Time	15 to 20	min.	
Setting Times			
	Initial Set		20 to 30 min.
(ASTM 266)	Final Set		30 to 45 min.
Compressive Strength	(ASTM C 109 mod.)	28 days	>3000 psi (21 N/mm ²

Drying Time before Covering Once material has hardened sufficiently so that a primer, underlayment or adhesive does not disturb the surface, it may be covered. Drying time will be dependent upon temperature, humidity and the thickness of the skim mortar.



How to Use Surface Preparati	All concrete, cement and ceramic/quarry tile substrates must be dry, clean and stable before applying the skim mortar compound. Remove all existing treatments such as coatings, sealers, wax, latex compounds, impregnations and curing agents, together with all contaminants and loose matter i.e. dirt, dust, laitance, grease, oils, and foreign matter, which will interfere with the adhesion of Sika [®] Level Rapid Patch. Prepare concrete, cement and ceramic/quarry tile substrates by mechanical means, such as light shotblasting, sanding or other appropriate methods, to remove weak material and achieve a matt, glaze free open-textured, fine-gripping surface (ICRI - CSP 3 minimum). All subfloors must be structurally stable and well bonded or fastened. Remove all existing treatments such as coatings, sealers, wax, latex compounds, impregnations and curing agents, together with all contaminants and loose matter i.e. dirt, dust, laitance, grease, oils, and foreign matter. Plywood subfloors must consist of exterior-grade wood which complies with Group 1 CC Type, is engineer approved and either recommended or warranted by the wood manufacturer or final floor covering supplier. Ensure wooden floors are well ventilated from below. Moisture Vapor Emission Rates of the substrate should comply and meet the requirements of the proposed floor covering. Test substrates for moisture content and consult the manufacturer of the final floor finish for advice
Mixing	As with all pre-bagged cement products, some settlement may have occurred during storage and trans-portation and dry blending of the material is recommended. Mix entire contents of bag (25 lb of powder) with up to 1 gal. of water. For part mixes, use up to 3 parts Sika [®] Level Rapid Patch powder with up to 1 part water by volume. For a creamier mix, use less water. Pour cool, potable water into a suitably sized and clean mixing container, using a calibrated measuring jug, or similar, to ensure strict control of the water content (avoid over-watering). Cool water (70°F/21°C) serves to maximize the pot life and work-ing time. Slowly add Sika [®] Level Rapid Patch powder to the water while either hand mixing or using a low speed electric mixer (300 to 450 rpm) and mortar/grout mixing paddle to blend water and powder for a minimum of 3 minutes. Mix until a uniform, lump free and smooth consistency is achieved. Mixing with a low speed drill equipped with a mixing paddle produces a more uniform, creamier mix with better workability. Note: Do not over water and avoid entrapment of air and excessive mixing as this will impact upon performance. Do not mix more mortar than can be used within the stated pot life and working time, taking into consideration ambient temperatures.
Application	The stated ambient and substrate application temperatures are to be achieved before works are started. Where temperatures exceed 86°F (30°C), refer to and follow ACI hot weather application and protection guidelines. Using a flat edge steel trowel, apply Sika [®] Level Rapid Patch immediately following mixing. Ensure that the compound is tightly trowelled into all defects, seams, and non-moving joints or across roughened surfaces as required. Where defects, details or roughened surfaces require repair or reprofil-ing to a depth greater than 13 mm, use the appropriate Sika [®] Level self levelling underlayment. Consult Sika Technical Services for advice or alternative recommendations.
Limitations	 For interior use only. Not suitable for exposed repairs or resurfacing. Do not exceed the recommended water dosage and use clean potable water. Do not install over substrates that contain asbestos. Not suitable for use on water soluble adhesive residues or those which suffer from migration/bleeding. Do not expose to adverse drying conditions while curing. Protect from other trades, traffic, dust and dirt until final floor covering is completely dry. Sika® Level Rapid Patch must be covered with an underlayment or final floor covering. Not a final wearing surface. Substrate and ambient temperatures must be between 50°F (10°C) and 100°F (38°C). Do not use on self-stick tile, particleboard, presswood, flake board, metallic or similar substrates and always comply with the final floor manufacturer's recommendations or instructions as to substrate or subfloor standards. Gypsum substrates should always be dry.
	PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800-933-7452. NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTION FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.
F E F F F	KEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to th actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet pefore using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Produc Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depar nent at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instructio or each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.
	SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTLE EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIK SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FO ITHE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHER! SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR B CALLING 201-933-8800.
	Visit our website at usa.sika.com 1-800-933-SIKA NATIONWIDE Regional Information and Sales Centers. For the location of your nearest Sika sales office, contact your regional center. Sika Corporation 201 Polito Avenue Lyndhurst, NJ 07071 Phone: 800-933-7452 Fax: 201-933-6225 601 Delmar Avenue Pointe Claire Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792 Sika Mexicana S.A. de C.V. Carretera Libre Celaya Km. 8.5 Frace. Industrial Balvanera Corregidora, Queretaro C.P. 76920 Image: Contact your regional center. Sika Mexicana S.A. de C.V. Sika Mexicana S.A. de C.V. Sika Mexicana S.A. de C.V. Corregidora, Queretaro C.P. 76920 Signosticate centers Signosticate centers Signostication Signosticate centers Signosticate centers Signosticate centers Signosticate centers Signostication Signosticate centers Signosticate centers Signosticate centers Signosticate centers Signostication Signosticate centers Signosticate centers Signosticate centers Signosticate centers Signo

Product Data Sheet Edition 9.30.2015 Sika® Level-315

Sika[®] Level-315

Very rapid hardening and durable, cementitious, self-leveling underlayment for use at 1/25 to 2 inches* (1 to 50 mm) thickness

cementitious, wood and tiled very rapid-setting, flat and ed	d substrates. It can l conomical substrate	and versatile cementitious underlayment for interior concrete be applied manually or by pump to produce a self-smoothing prior to the application of a final floor finish. Typical application
Institutional - schools, colle Commercial - offices, corric	eges, hospitals, clini lors, hallways, cant	cs, libraries, galleries, museums eens, cafeterias, stores, hotels, restaurants
 Highly fluid and self-level Manual or pumpable app Feather-edging acceptab Levels new and renovate Very rapid drying, can be Ceramic tiles and natural Floor coverings (carpet, variable) 	ling olication ole in pedestrian are es old floors e walked on in as litt I stone can be insta vinyl, PVC, rubber, o	le as 1-2 hours at 73°F (23°C) lled after 1-2 hours engineered wood flooring) can be installed after 24 hours
Approximate coverage at typ 1/25 in (1 mm) 1/8 in (3 mm) 3/16 in (5 mm) 3/8 in (10 mm) 5/8 in (16 mm) 1 in (25 mm)	pical thicknesses pe	r 50 lb bag 140 ft ² 41.25 ft ² 27.5 ft ² 13.75 ft ² 8.7 ft ² 5.6 ft ²
Polymer modified rapid hard	lening cement.	
RESULTS MAY DIFFER BASED U	PON STATISTICAL VARI	ATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT,
Shelf Life	1 year from date of	production if stored properly in original, unopened
Storage Conditions	U	[°] F (4°-30°C). Condition material to 65°-75°F
-	(18°-24°C) before	using. Protect from moisture. If damp, discard material.
Color	Concrete gray	
Yield	coverage at typical	S cu. ft. (0.013 m ³) per 50 lb (22.7 kg) bag. Approximate thicknesses per 50 lb (22.7 kg) bag. Coverage figures do nee for surface profile and porosity or material waste.
Mixing Ratio	9.0 - 9.5 pints of w	ater per 50 lb (22.7 kg) bag
Application Temp. (substrate & ambient)	``	°C); Maximum 95°F (35°C)
		1.0 mm); Maximum 2 in (50 mm)
Density {wet mix} (ASTM Working Time	l C-185)	130 lb/ft ³ 25 to 30 minutes at 3/16 in (5 mm) thickness ~ 5" at 15 minutes
	very rapid-setting, flat and ed thickness is 1/25 to 2 inche * in localized areas Interior floor leveling and sm Institutional - schools, colle Commercial - offices, corric Residential - domestic prop = Easy and quick to install = Zero VOC content and lo = Highly fluid and self-level Manual or pumpable app = Feather-edging acceptate = Levels new and renovate = Very rapid drying, can be = Ceramic tiles and natural = Floor coverings (carpet, v = Excellent underlay for tile Approximately 0.46 cu.ft. pe Approximate coverage at ty 1/25 in (1 mm) 1/8 in (3 mm) 3/16 in (5 mm) 3/8 in (10 mm) 5/8 in (16 mm) 1 in (25 mm) (Coverage figures do not include Polymer modified rapid hard 50 lb (22.7 kg) bag Typical Data (Material RESULTS MAY DIFFER BASED U TEMPERATURE, APPLICATION N Shelf Life Storage Conditions Color Yield Mixing Ratio Application Temp.	very rapid-setting, flat and economical substrate thickness is 1/25 to 2 inches* (1 to 50 mm). * in localized areas Interior floor leveling and smoothing application Institutional - schools, colleges, hospitals, clini Commercial - offices, corridors, hallways, cante Residential - domestic properties, condominum Easy and quick to install Zero VOC content and low odor Highly fluid and self-leveling Manual or pumpable application Feather-edging acceptable in pedestrian are Levels new and renovates old floors Very rapid drying, can be walked on in as litt Ceramic tiles and natural stone can be instal Floor coverings (carpet, vinyl, PVC, rubber, e Excellent underlay for tiles, sheet products a Approximate coverage at typical thicknesses per 1/25 in (1 mm) 1/8 in (3 mm) 3/16 in (5 mm) 3/8 in (10 mm) 5/8 in (16 mm) 1 in (25 mm) (Coverage figures do not include allowance for surface Polymer modified rapid hardening cement. 50 lb (22.7 kg) bag Typical Data (Material and curing condition RESULTS MAY DIFFER BASED UPON STATISTICAL VARI TEMPERATURE, APPLICATION METHODS, TEST METHO Shelf Life 1 year from date of and undamaged se Storage Conditions Store dry at 40°-86 (18°-24°C) before 1 Color Concrete gray Yield Approximately 0.46 coverage at typical not include alloware Mixing Ratio Application Temp. (substrate & ambient)

	16 hour 24 hours 3 day	73°F* (23°C) 2,000 2,750 3,250	7 day 14 day 28 day	3,875 4,125 > 5,000	
	Pull-Out Strength 3/16 in (5			ner (ACI 503)	
	VOC (EPA method 24)	> 2.0 MPa (29 0 g/L	U psi)		
How to Use Surface Preparation	All concrete and cement sub substrates, including wood su using Sika® Level-02 Primer in stable before priming and app ings, sealers, wax, latex comp dust, laitance, grease, oils, an and the adhesion of Sika® Lev	ubfloors, ceramic, o n accordance with t plying the underlayn pounds, impregnatio nd foreign matter, wh vel-315.	uarry and vinyl tiles a he product data sheet nent materials. Remov ons and curing agents,	and cut back adhesive must the substrate must be dry ve all existing treatments su together with all contamina	t be pri , clean ch as c ints i.e.
	Concrete & Dense Substrat				nc-'
	Prepare concrete, cement at means, such as shotblasting, an open-textured, fine-grippii surface defects such as blowl mortar prior to priming and le primer through to lower areas including preparation residue Level-01 Primer. The compre at 28 days with a minimum te Moisture vapor emission rates covering. Please consult the	sandblasting, wate ng surface (ICRI - holes and spalls full evelling. All cracks a s. Consult Sika Teck e, must be complete essive strength of th nsile strength of 1.0 s of the substrate sh	r-jetting, scarifying, or CSP 3 minimum). We y exposed and repaire ind holes should be sin hnical Sales for recom- ely removed using a v e concrete substrate sin MPa (>145 psi) at the ould comply and meet	other appropriate methods, eak concrete should be rer ed Sika®Level SkimCoat or milarly filled to prevent seep mendations. All loose friable acuum before application of should be at least 20 MPa (e time Sika®Level-01 Primer the requirements of the pro	to ach moved SikaQu page of le mate of the S (>2900 r is app
	Careful consideration should the timing of application of pri excessively porous substrate equilibrium in slab vapor pres Sika recommends the applica and acceptability of final pro should be sufficient; however, substrates. Where multiple co	imer and underlaymers, outgassing will in soure and the ambies ation of several sma duct performance. the allowance should be	nent. Immediately follo increase for a short p nt environment is reac all test patches to dete In general, a one-coa oe made for double pri	wing mechanical preparatic period of time (approx. 48 h ched. Before overall installat ermine primer application re- at application of Sika® Level iming on excessively porous	on on so hours) tion beg quiremo I-01 Pri
	Wooden/Plywood Subfloors Where installing Sika® Level- at least two layers of exterior minimum, the deflection parar	315 underlayment or grade plywood, a meters of L/360 (live	minimum of 1 ¼ inch and dead loads taken	(32mm) in thickness and n into consideration). The woo	neets, a od/plyw
	must then be suitably secured manufacturer of the final floor	d, bonded and prep	ared to a contaminant	free and sound condition. F	Refer to
Mixing	Pour 9.0 - 9.5 pints of cool, pot suring jug, or similar, to ensure to maximize the working time; cooling the water. Add Sika® Le sack. Once all the powder has	table water into a sui e strict control of the if available water is evel-315 to the water	tably sized and clean n water content (avoid not at this temperature , while slowly stirring, ad	nixing container, using a calib over-watering). Cool water 7 e, then consideration should dding the complete contents	orated n 70°F se be give of the 5
	If mixing in a barrel or similar or electric mixer (300 to 450 rpm of 3 minutes, until a uniform m of material as this will introdu pin-holing in the underlaymen	n) and egg beater si nix has been produc ice and entrap air ir nt. Let the mixed ma	tyle mixing paddle to b ed. Do not overmix or nto the mix, potentially aterial stand until the n	blend water and powder for allow the paddle to rise above shortening the working life majority of air bubbles have	a minin ve the l or cau dispers
	When pump-mixing, ensure the test the equipment, checking in place to prevent foreign material sectors in the sector of the sec	that the mixing and	l pumping elements a	re fully functional and that n	
Application	Prior to placing the underlaym avoid accelerated curing and re- are to be achieved before inst colder conditions prevail, make application temperatures requi application and protection guide that installers can maintain a cc in terms of width, should also b and control joints in the substr expansion and control joints wi such joints not exist in the subst	ent, ensure that all s duced physical prope allation and should b e allowances for the ired. Where tempera elines. Before laying ontinuous flow of ma be set accordingly. Sil rate re bridged; such here specified, includ	ources of premature due tries. The stated ambier be maintained for a per use of indirect and ven atures exceed 86°F (30 the material, organize la terial and avoid creating ka® Level-315 must not i joints must be detailed ding at the perimeter of	rying or direct sunlight are ble nt and substrate application te riod of at least 3 days therea uted heaters to achieve and n 0°C), refer to and follow ACI h abor to operate most effective g cold joints. The dimensions be applied in such a way tha d through the underlayment. rooms, columns, and pedest	mperati fter. Sh naintair hot wea ly, ensu of the p t expan Provide tals. Sh
	OR TO EACH USE OF ANY SIKA TRUCTIONS ON THE PRODUCT' ET WHICH ARE AVAILABLE ONI RTMENT AT 800.933.7452 NOTHIN	S MOST CURRENT F LINE AT HTTP://USA	ER MUST ALWAYS RE/ PRODUCT DATA SHEET SIKA.COM/ OR BY CAL	AD AND FOLLOW THE WARI I, PRODUCT LABEL AND SA LLING SIKA'S TECHNICAL SE	NINGS / FETY D ERVICE

		application. Pour or puensuring that a wet ed ing the necessary covuup to 2" per lift are posican be used to minimi 1. The material can bin one lift. A reduction smooth finished floor. of aggregate. 2. Pre-washed 3/8" p Applicator must be an adding aggregate, eval lifts can also be applied lifts. If necessary, fur Service Department.	imp the mixed material onto ge is maintained; spread by erage over high points. Non isible. For large scale areas ze material cost: e extended by adding up t in flow, approximately 15% When adding aggregate, e ea-gravel can be pre-plac ware that the aggregate ca spect coverage to increas ed to achieve greater dept ther detailed recommenda Over large areas, applica priate. Thoroughly spike r	e of laying or can be cut into Sika [®] Level-31 the primed surface quickly and without delay trowel or pin screed/gauge rake to the require inal maximum thickness is 1" per lift. Localize that require deeper applications, the following 0 30% of 20/30 grade sand during mixing to , can be expected. The final layer should be spect coverage to increase by approximately ed into the area being leveled allowing for u n cause voids in the underlayment if not fill by approximately .16 cu.ft. per 25 lbs of a s, making sure to prime with Sika [®] Level 01 tions can be obtained by calling Sika Corp ion by conventional piston, rotor-stator or oll in two directions (90°) to remove installar	, in a ribbon pattern, ad thickness achiev- id areas with depths g recommendations a achieve up to 2.5" e neat to allow for a .16 cu.ft. per 25 lbs p to 2.5" in one lift. ed correctly. When aggregate. Multiple Primer in between oration's Technical underlayment type
	Over Painting	reached after 24 hour hours. Suitable for wo at 73°F(+23°C) and 50 the temperature and has achieved the requiness and ambient hu	ng with impermeable mois rs. Suitable for overcoating ood floor bonding at 1/8 inc 0% R.H. and thus will be aff relative humidity. When over uired value for the coating midity. (Refer to the top coat o overcoating. Other test re	ure sensitive floors after drying (max. 3% hu with tiles or other moisture insensitive floor h (3 mm) thickness after 24 hours. Times ar ected by changing substrate and ambient cor rcoating Sika® Level-315 always ensure the product, as the waiting time will vary with the t product data sheet). Typical moisture cont commended by floor covering manufactures	covering after 1-2 e approximate and nditions, particularly moisture content e application thick- tent of the product
	Limitations	 Do not apply Sika[®] or dimensionally u Engineer-approve be properly secure Always prime con Protect Sika[®] Leve ventilation for 24 H Do not exceed the Temperature varia Protect newly app Prevent contaminat do not expose to n When overcoating laitance and mate If subsequent layer ration and re-prim As the thickness or stones, tiles, or consubstrate moisture Sika[®] Level-315 de For adhesives oth 	Instable substrates. Id wooden (plywood) subf ed, bonded, and prepared crete and cement substra- el-315 from excessive hea hours before installation and recommended water dos ations will affect working til lied Sika® Level-315 from ants, dust and dirt from cor rolling dynamic loads for 2 g with Sika Primer MB, m rial which could interfere w ris of Sika® Level-315 are i ing is required. If the underlayment will inforverings, the manufacture e content and other charactores not provide an aesthe er than SikaBond®, we real XY SIKA PRODUCT, THE L RODUCT'S MOST CURREN	boboard, particle board, hardboard, metal, gy bors must be at least 1.25 in. (3.2 cm) in t and free of contaminants and loose friable es with SikaLevel® Primer-01 primer t and moving air by turning off radiant hea d while the underlayment is curing. age and use clean potable water. he, with low temperatures extending drying condensation and water for at least 24 hou hing into contact with the underlayment for a days (at 73°F, 50% R. H.). echanical preparation may be required to ith adhesion. Isstalled on existing, cured Sika®Level-315, uence the time at which it can be overcoate of such materials must be consulted for g	hickness and must material. ting and forced air times. rs. at least 4 hours and remove all surface mechanical prepa- d or overlayed with guidance regarding oor covering.
		PARTMENT AT 800.933.7452 TO READ AND FOLLOW TH RENT PRODUCT DATA SHE KEEP CONTAINER TIGHTLY CLOSED. KE For further information and advia actual Safety Data Sheets contain before using the product. In case Prior to each use of any Sika prod Data Sheet, product label and Saf ment at 800-933.7452. Nothing co	PNOTHING CONTAINED IN A E WARNINGS AND INSTRU ET, PRODUCT LABEL AND EP OUT OF REACH OF CHILDREN. NOT ce regarding transportation, har ing physical, ecological, toxicol of emergency, call CHEMTREC uct, the user must always read ar ety Data Sheet which are availab ntained in any Sika materials reil	NY SIKA MATERIALS RELIEVES THE USER O CTIONS FOR EACH SIKA PRODUCT AS SET F SAFETY DATA SHEET PRIOR TO PRODUCT U OR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOF dling, storage and disposal of chemical products, us gical and other safety related data. Read the current at t 1-800-424-9300, International 703-527-3887. d follow the warnings and instructions on the product e online at http://usa.sika.com/ or by calling Sika's Te ves the user of the obligation to read and follow the w	F THE OBLIGATION ORTH IN THE CUR- ISE. PROFESSIONAL USE ONLY. sers should refer to the ctual Safety Data Sheet 's most current Product chnical Service Depart-
ſi	ka®	for each Sika product as set forth product use. SIKA warrants this product for on the current Product Data Sheet if Buyer's sole remedy shall be limit EXPRESS OR IMPLIED SHALL AP SHALL NOT BE LIABLE UNDERA THE USE OF THIS PRODUCT IN AN SALE OF SIKA PRODUCTS ARI CALLING 201-933-8800. Visit our website at usa.sika.co	n in the current Product Data Sho ne year from date of installation to used as directed within shelf life. ed to the purchase price or replay PLY INCLUDING ANY WARRAN NY LEGAL THEORY FOR SPECIA MANNER TO INFRINGE ON ANY P. E SUBJECT SIKA'S TERMS AN Dom	et, product label and Safety Data Sheet prior to be free from manufacturing defects and to meet the Jser determines suitability of product for intended us ement of product exclusive of labor or cost of labor. NY YOF MERCHANTABILITY OR FITNESS FOR A PARTIC OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT TENT OR ANY OTHER INTELLECTUAL PROPERTY RIC CONDITIONS OF SALE AVAILABLE AT HTTP://U 1-800-933-SIKA NAT ur nearest Sika sales office, contact your regional co Sika Mexicana S.A. de C.V. Carretera Libre Celaya Km. 8.5 Fracc. Industrial Balvanera Corregidora, Queretaro C.P. 76920 Phone: 52 442 2385800	technical properties on e and assumes all risks. O OTHER WARRANTIES JULAR PURPOSE. SIKA BE RESPONSIBLE FOR BE RESPONSIBLE FOR HTS HELD BY OTHERS. SA.SIKA.COM/ OR BY

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Product Data Sheet Edition 9.30.2015 Sika® Level-125

Sika[®] Level-125

Durable, cementitious, self-leveling underlayment for use at 1/25 to 2 inches* (1 to 50 mm) thickness

Description	and cementitious substrate	es. It can be applied	e and versatile cementitious underlayment for interior concrete manually or by pump to produce a self-smoothing, rapid-setting cation of a final floor finish. Typical application thickness is 1/2
Where to Use	Institutional - schools, col Commercial - offices, con	lleges, hospitals, cl idors, hallways, ca	ons where floor coverings are to follow, such as: inics, libraries, galleries, museums nteens, cafeterias, stores, hotels, restaurants ums and high rise construction
Advantages	 Floor coverings (carpet 	low odor eling oplication able in pedestrian a tes old floors be walked on in afte g with non-moisture , vinyl, PVC, rubber	
Coverage	Approximately 0.438 cu.ft. Approximate coverage at t 1/25 in (1 mm) 1/8 in (3 mm) 3/16 in (5 mm) 3/8 in (10 mm) 5/8 in (16 mm) 1 in (25 mm) (Coverage figures do not inclu	ypical thicknesses	
Cure Mechanism	Polymer modified rapid ha	rdening cement.	
Packaging	50 lb (22.7 kg) bag		
	Typical Data (Materi	al and curing con	ditions @ 73°F (23°C) and 50% R.H.)
	RESULTS MAY DIFFER BASED	UPON STATISTICAL VA	RIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, HODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.
	Shelf Life		of production if stored properly in original, unopened sealed packaging.
	Storage Conditions	Store dry at 40°-	86°F (4°-30°C). Condition material to 65°-75°F
		. ,	e using. Protect from moisture. If damp, discard material.
	Color Yield	coverage at typic	46 cu. ft. (0.013 m ³) per 50 lb (22.7 kg) bag. Approximate al thicknesses per 50 lb (22.7 kg) bag. Coverage figures do ance for surface profile and porosity or material waste.
	Mixing Ratio		per 50 lb (22.7 kg) bag
	Application Temp. (substrate & ambient)	Minimum 50°F (1	0°C); Maximum 95°F (35°C)
	Application Thickness	Minimum 1/25 in	(1.0 mm); Maximum 2 in (50 mm)
	Density {wet mix} (AST Working Time Flowability (EN 12706) Setting Times (ASTM C Length Change 28 days (ASTM C-157 modified) Flexural Strength 28 days	266)	133 lb/ft ³ 25 minutes at 3/16 in (5 mm) thickness ~ 5" at 15 minutes Initial Set – 45-90 min.; Final Set – 70-100 min. <0.04% 1,150 psi
	RIOR TO EACH USE OF ANY SI NSTRUCTIONS ON THE PRODUC HEET WHICH ARE AVAILABLE C ARTMENT AT 800.933.7452 NOTH	KA PRODUCT, THE CT'S MOST CURREN DNLINE AT HTTP://U HING CONTAINED IN	USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AN IT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DA SA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE D ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATIC JCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CU

RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

		Compressive Strength (AST	M C-109) nsi		
		24 hours 3 days 7 days	50°F* (10°C) 1,000 1,375 1,625	73°F* (23°C) 1,250 1,500 2,500	86°F* (30°C) 1,390 1,665 2,600
		28 days	2,875	4,000	3,125
		Pull-Out Strength 3/16 in (5 i	mm) thickness with > 2.0 MPa (290 psi		er (ACI 503)
		VOC (EPA method 24)	0 g/L		
	How to Use Surface Preparation	substrates, including wood subflo using Sika [®] Level-02 Primer in ac stable before priming and applyin ings, sealers, wax, latex compour	cors, ceramic, quarry cordance with the pring the underlayment nds, impregnations a reign matter, which w	y and vinyl tiles and c oduct data sheet. The materials. Remove al nd curing agents, toge	Primer and all difficult-to-bond-to out back adhesive must be primed a substrate must be dry, clean and l existing treatments such as coat- ether with all contaminants i.e. dirt, enetration of Sika®Level-01 Primer
		means, such as shotblasting, sar an open-textured, fine-gripping s surface defects such as blowhole mortar prior to priming and levell primer through to lower areas. C including preparation residue, m Level-01 Primer. The compressiv at 28 days with a minimum tensile	adblasting, water-jetti surface (ICRI - CSP es and spalls fully exp ing. All cracks and h onsult Sika Technica ust be completely re ve strength of the con e strength of 1.0 MPa the substrate should	ing, scarifying, or othe 3 minimum). Weak bosed and repaired Si oles should be similar Il Sales for recommer moved using a vacuuncrete substrate shou a (>145 psi) at the time comply and meet the	rry and vinyl tiles by mechanical er appropriate methods, to achieve concrete should be removed and ka®Level SkimCoat or SikaQuick® rly filled to prevent seepage of the dations. All loose friable material, im before application of the Sika® Id be at least 20 MPa (>2900 psi) e Sika®Level-01 Primer is applied. requirements of the proposed floor a.
		the timing of application of primer excessively porous substrates, of equilibrium in slab vapor pressure Sika recommends the application and acceptability of final product should be sufficient; however, allo substrates. Where multiple coats	r and underlayment. butgassing will incre e and the ambient en n of several small tes t performance. In ge bwance should be ma	Immediately following ase for a short perior vironment is reached. It patches to determine eneral, a one-coat ap ade for double priming	echanical surface preparation and mechanical preparation on some d of time (approx. 48 hours) until Before overall installation begins, e primer application requirements plication of Sika [®] Level-01 Primer g on excessively porous or profiled erial.
		at least two layers of exterior gra minimum, the deflection parameter	ade plywood, a minir ers of L/360 (live and onded and prepared	num of 1 ¼ inch (32r dead loads taken into to a contaminant free	nsure that the subfloor consists of nm) in thickness and meets, as a consideration). The wood/plywood and sound condition. Consult the ments of the floor finish system.
	Mixing	jug, or similar, to ensure strict cont mize the working time; if available	rol of the water conte water is not at this te the water, while slow!	nt (avoid over-watering mperature, then consi y stirring, adding the co	tainer, using a calibrated measuring g). Cool water 70°F serves to maxi- deration should be given to cooling omplete contents of the 50 lb. sack. iform consistency is achieved.
		electric mixer (300 to 450 rpm) and of 3 minutes, until a uniform mix h of material as this will introduce a	nd egg beater style n las been produced. I and entrap air into th	nixing paddle to blenc oo not overmix or allov e mix, potentially sho	stated above and use a low speed I water and powder for a minimum v the paddle to rise above the level rtening the working life or causing rity of air bubbles have dispersed.
			t the mixing and pun	nping elements are fu	bund working order. Pre-clean and lly functional and that meshes are sed onto the floor.
ſ	Application	Prior to placing the underlayment, avoid accelerated curing and reduce are to be achieved before installat colder conditions prevail, make all application temperatures required. application and protection guideline that installers can maintain a contir in terms of width, should also be se and control joints in the substrate expansion and control joints where	ensure that all source ed physical properties. ion and should be ma owances for the use of Where temperatures as. Before laying the ma nuous flow of material et accordingly. Sika® Lu re bridged; such joint e specified, including a	es of premature drying The stated ambient an- aintained for a period of of indirect and vented h s exceed 86°F (30°C), haterial, organize labor and avoid creating colo evel-125 must not be a s must be detailed thro at the perimeter of roor	or direct sunlight are blocked off to d substrate application temperatures of at least 3 days thereafter. Should neaters to achieve and maintain the refer to and follow ACI hot weather to operate most effectively, ensuring d joints. The dimensions of the pour, pplied in such a way that expansion ough the underlayment. Provide for ns, columns, and pedestals. Should derlayment. Joints, of at least 1/4 in
Jil		RIOR TO EACH USE OF ANY SIKA PR STRUCTIONS ON THE PRODUCT'S M HEET WHICH ARE AVAILABLE ONLINE ARTMENT AT 800.933.7452 NOTHING C D READ AND FOLLOW THE WARNING ENT PRODUCT DATA SHEET, PRODUC	OST CURRENT PROE AT HTTP://USA.SIKA ONTAINED IN ANY SIK S AND INSTRUCTIONS	DUCT DATA SHEET, PR COM/ OR BY CALLING (A MATERIALS RELIEV S FOR EACH SIKA PRC	ODUCT LABEL AND SAFETY DATA G SIKA'S TECHNICAL SERVICE DE- 'ES THE USER OF THE OBLIGATION DUCT AS SET FORTH IN THE CUR-

	 (6 mm) can be formed using foam tape at the time of laying or can be cut into Sika[®] Level-125 within 24 hours of application. Pour or pump the mixed material onto the primed surface quickly and without delay, in a ribbon pattern, ensuring that a wet edge is maintained; spread by trowel or pin screed/gauge rake to the required thickness achieving the necessary coverage over high points. Nominal maximum thickness is 1" per lift. Localized areas with depths up to 2" per lift are possible. For large scale areas that require deeper applications, the following recommendations can be used to minimize material cost: 1. The material can be extended by adding up to 30% of 20/30 grade sand during mixing to achieve up to 2.5" in one lift. A reduction in flow, approximately 15%, can be expected. The final layer should be neat to allow for a smooth finished floor. When adding aggregate, expect coverage to increase by approximately .16 cu.ft. per 25 lbs of aggregate. 2. Pre-washed 3/8" pea-gravel can be pre-placed into the area being leveled allowing for up to 2.5" in one lift. Applicator must be aware that the aggregate can cause voids in the underlayment if not filled correctly. When adding aggregate, expect coverage to increase by approximately .16 cu.ft. per 25 lbs of aggregate, expect coverage to increase by approximately .16 cu ft. per 25 lbs of aggregate, expect coverage to increase by approximately .16 cu ft. per 25 lbs of aggregate. Multiple lifts can also be applied to achieve greater depths, making sure to prime with Sika[®]Level 01 Primer in between lifts. If necessary, further detailed recommendations can be obtained by calling Sika Corporation's Technical Service Department. Over large areas, application by conventional piston, rotor-stator or underlayment type pumps is more appropriate. Thoroughly spike roll in two directions (90°) to remove installation marks and any entrapped air, but avoid overworking.
Over Painting	Waiting Time / Overcoating Suitable for overcoating with impermeable moisture sensitive floors after drying (max. 3% humidity); normally reached after 24 hours. Suitable for overcoating with tiles or other moisture insensitive floor covering after 2-3 hours. Suitable for wood floor bonding at 1/8 inch (3 mm) thickness after 24 hours. Times are approximate andat 73°F(+23°C) and 50% R.H. and thus will be affected by changing substrate and ambient conditions, particularly the temperature and relative humidity. When overcoating Sika® Level-125 always ensure the moisture content has achieved the required value for the coating product, as the waiting time will vary with the application thick- ness and ambient humidity. (Refer to the top coat product data sheet). Typical moisture content of the product should be <4% prior to overcoating. Other test recommended by floor covering manufacturer should be used as the final decision making tool.
Limitations	 For interior use only. Not suitable for slopes or inclines >0.5% Do not apply Sika®Level-125 onto based, chipboard, particle board, hardboard, metal, gypsum-based floors or dimensionally unstable substrates. Engineer-approved wooden (plywood) subfloors must be at least 1.25 in. (3.2 cm) in thickness and must be properly secured, bonded, and prepared and free of contaminants and loose friable material. Always prime concrete and cement substrates with Sika® Level Primer-01 primer Protect Sika® Level-125 from excessive heat and moving air by turning off radiant heating and forced air ventilation for 24 hours before installation and while the underlayment is curing. Do not exceed the recommended water dosage and use clean potable water. Temperature variations will affect working time, with low temperatures extending drying times. Protect newly applied Sika® Level-125 from condensation and water for at least 24 hours. Prevent contaminants, dust and dirt from coming into contact with the underlayment for at least 4 hours and do not expose to rolling dynamic loads for 2 days (at 73°F, 50% R. H.). When overcoating with Sika® Primer MB, mechanical preparation may be required to remove all surface laitance and material which could interfere with adhesion. If subsequent layers of Sika® Level-125 are installed on existing, cured Sika® Level-125, mechanical preparation and re-priming is required. As the thickness of the underlayment will influence the time at which it can be overcoated or overlayed with stones, tiles, or coverings, the manufacturer of such materials must be consulted for guidance regarding substrate moisture content and other characteristics. Sika® Level-125 does not provide an aesthetic finish and is intended to receive a final floor covering. For adhesives other than SikaBond®, we recommend a test application prior to use.
	KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY. For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet which have available on the safety Data Sheet prior to product use. SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor. NO OTHER WARRANTIES FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANDER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF THIS PRODUCT IN A MANDER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF THIS PRODUCT IN A MANDER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGH
ka ®	Visit our website at usa.sika.com 1-800-933-SIKA NATIONWIDE Regional Information and Sales Centers. For the location of your nearest Sika sales office, contact your regional center. Sika Corporation Sika Corporation Sika Canada Inc. 201 Polito Avenue 601 Delmar Avenue Lyndhurst, NJ 07071 Pointe Claire



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Sika[®] FerroGard[®] 903

Penetrating, corrosion inhibiting, impregnation coating for hardened concrete

Description	is designed to penetrate the s embedded in the concrete. Sil	prrosion inhibiting impregnation for hardened, reinforced concrete surfaces. In surface and then to diffuse in vapor or liquid form to the steel reinforcing bars ka® FerroGard® 903 forms a protective layer on the steel surface which inhibits ence of chlorides as well as by carbonation of concrete.
Where to use	concrete. Use of Sika [®] FerroG Steel-reinforced concrete, bri Building facades and balco Steel-reinforced concrete in Parking garages. Piers, piles, and concrete c	idges and highways exposed to corrosive environments (de-icing salts, weathering). nies. n or near a marine environment.
Advantages	that protects both the anodic and the initiation of corrosion and g	rd [®] 903 is a combination of amino alcohols, and organic and inorganic inhibitors nd cathodic parts of the corrosion cell. This dual action effect dramatically delays greatly reduces the overall corrosion activity. Sika [®] FerroGard [®] 903 protects the g a physical barrier in the form of a protective layer on the surface of the stee ibits corrosion of the steel.
	can easily be applied to the su structure.	reinforced concrete.
	 Does not contain calcium n Easily applied by either spr Can be applied to reinforce Adds additional benefits wh Water based for easy hand Not a vapor barrier; allows 	itrite. ay or roller to all existing reinforced concrete. ad concrete that already exhibits corrosion. hen used prior to protective coatings in concrete restoration systems. lling and application. vapor diffusion. effective in both laboratory (ASTM G109/Cracked Beams) and field analysis.
Coverage	 Does not contain calcium n Easily applied by either spr Can be applied to reinforce Adds additional benefits wh Water based for easy hand Not a vapor barrier; allows FerroGard has been proven ANSI/NSF Standard 61 pol For normal concrete, application For dense concrete, application 	hitrite. ray or roller to all existing reinforced concrete. ed concrete that already exhibits corrosion. hen used prior to protective coatings in concrete restoration systems. lling and application. vapor diffusion. effective in both laboratory (ASTM G109/Cracked Beams) and field analysis. table water approved. on is 200 ft. ² /gal. each coat. A minimum of two coats is always recommended on may exceed 300 ft. ² /gal. Therefore, more than two coats may be required to
Coverage Packaging	 Does not contain calcium n Easily applied by either spr Can be applied to reinforce Adds additional benefits wh Water based for easy hand Not a vapor barrier; allows FerroGard has been proven ANSI/NSF Standard 61 pot 	hitrite. ray or roller to all existing reinforced concrete. ed concrete that already exhibits corrosion. hen used prior to protective coatings in concrete restoration systems. lling and application. vapor diffusion. effective in both laboratory (ASTM G109/Cracked Beams) and field analysis. table water approved. on is 200 ft.²/gal. each coat. A minimum of two coats is always recommended on may exceed 300 ft.²/gal. Therefore, more than two coats may be required to rate: 100 ft.²/gal.
	 Does not contain calcium n Easily applied by either spr Can be applied to reinforce Adds additional benefits wh Water based for easy hand Not a vapor barrier; allows FerroGard has been proven ANSI/NSF Standard 61 pot For normal concrete, application For dense concrete, application 5 gallon pails with spout, 55 ga 	hitrite. ray or roller to all existing reinforced concrete. ed concrete that already exhibits corrosion. hen used prior to protective coatings in concrete restoration systems. lling and application. vapor diffusion. effective in both laboratory (ASTM G109/Cracked Beams) and field analysis. table water approved. on is 200 ft.²/gal. each coat. A minimum of two coats is always recommended on may exceed 300 ft.²/gal. Therefore, more than two coats may be required to rate: 100 ft.²/gal. allon drums.
	 Does not contain calcium n Easily applied by either spr Can be applied to reinforce Adds additional benefits wh Water based for easy hand Not a vapor barrier; allows FerroGard has been proven ANSI/NSF Standard 61 pot For normal concrete, application For dense concrete, application 5 gallon pails with spout, 55 ga 	 attrite. aray or roller to all existing reinforced concrete. ad concrete that already exhibits corrosion. nen used prior to protective coatings in concrete restoration systems. lling and application. vapor diffusion. effective in both laboratory (ASTM G109/Cracked Beams) and field analysis. table water approved. on is 200 ft.²/gal. each coat. A minimum of two coats is always recommended on may exceed 300 ft.²/gal. Therefore, more than two coats may be required to rate: 100 ft.²/gal. allon drums.
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	 Does not contain calcium n Easily applied by either spr Can be applied to reinforce Adds additional benefits wh Water based for easy hand Not a vapor barrier; allows FerroGard has been proven ANSI/NSF Standard 61 pol For normal concrete, application For dense concrete, application 5 gallon pails with spout, 55 gat Typical Data [at RESULTS MAY DIFFER BATEMPERATURE, APPLICA Shelf life	 attrite. ary or roller to all existing reinforced concrete. ad concrete that already exhibits corrosion. ane used prior to protective coatings in concrete restoration systems. lling and application. vapor diffusion. effective in both laboratory (ASTM G109/Cracked Beams) and field analysis. table water approved. on is 200 ft.²/gal. each coat. A minimum of two coats is always recommended on may exceed 300 ft.²/gal. Therefore, more than two coats may be required to rate: 100 ft.²/gal. allon drums.
	 Does not contain calcium n Easily applied by either spr Can be applied to reinforce Adds additional benefits wh Water based for easy hand Not a vapor barrier; allows FerroGard has been proven ANSI/NSF Standard 61 pol For normal concrete, application For dense concrete, application 5 gallon pails with spout, 55 gat Typical Data (at RESULTS MAY DIFFER BATEMPERATURE, APPLICA Shelf life Storage Conditions Color Viscosity	 itirite. ray or roller to all existing reinforced concrete. ed concrete that already exhibits corrosion. nen used prior to protective coatings in concrete restoration systems. lling and application. vapor diffusion. effective in both laboratory (ASTM G109/Cracked Beams) and field analysis. table water approved. on is 200 ft.²/gal. each coat. A minimum of two coats is always recommended on may exceed 300 ft.²/gal. Therefore, more than two coats may be required to rate: 100 ft.³/gal. allon drums. 73°F(23°C)] SEED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, NTION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. 18 months minimum in original, unopened container. s Store at 40°-95°F (4°-35°C). Protect from freezing. If frozen, discard. Pale Yellow 15 cps
	 Does not contain calcium n Easily applied by either spr Can be applied to reinforce Adds additional benefits wh Water based for easy hand Not a vapor barrier; allows FerroGard has been proven ANSI/NSF Standard 61 pol For normal concrete, application For dense concrete, application 5 gallon pails with spout, 55 gallon Storage Conditions Color 	 itirite. ray or roller to all existing reinforced concrete. ed concrete that already exhibits corrosion. nen used prior to protective coatings in concrete restoration systems. lling and application. vapor diffusion. effective in both laboratory (ASTM G109/Cracked Beams) and field analysis. table water approved. on is 200 ft.²/gal. each coat. A minimum of two coats is always recommended on may exceed 300 ft.²/gal. Therefore, more than two coats may be required to rate: 100 ft.²/gal. allon drums. 73°F(23°C)] XSED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. 18 months minimum in original, unopened container. s Store at 40°-95°F (4°-35°C). Protect from freezing. If frozen, discard. Pale Yellow 15 cps None (water based)
	 Does not contain calcium n Easily applied by either spr Can be applied to reinforce Adds additional benefits wh Water based for easy hand Not a vapor barrier; allows FerroGard has been proven ANSI/NSF Standard 61 pot For normal concrete, application 5 gallon pails with spout, 55 gat Typical Data [at RESULTS MAY DIFFER BATEMPERATURE, APPLICA Shelf life Storage Conditions Color Viscosity Flash Point Density	 itirite. ray or roller to all existing reinforced concrete. ad concrete that already exhibits corrosion. nen used prior to protective coatings in concrete restoration systems. lling and application. vapor diffusion. effective in both laboratory (ASTM G109/Cracked Beams) and field analysis. table water approved. on is 200 ft.²/gal. each coat. A minimum of two coats is always recommended on may exceed 300 ft.²/gal. Therefore, more than two coats may be required to rate: 100 ft.²/gal. allon drums. 73°F(23°C)] SEED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, NTION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. 18 months minimum in original, unopened container. s Store at 40°-95°F (4°-35°C). Protect from freezing. If frozen, discard. Pale Yellow 15 cps None (water based) 1.13 (9.4 lbs./gal.)
	Does not contain calcium n Easily applied by either spr Can be applied to reinforce Adds additional benefits wi Water based for easy hand Not a vapor barrier; allows FerroGard has been proven ANSI/NSF Standard 61 pol For normal concrete, applicati For dense concrete, application S gallon pails with spout, 55 ga Typical Data /at RESULTS MAY DIFFER BA TEMPERATURE, APPLICA Shelf life Storage Conditions Color Viscosity Flash Point	 itirite. ray or roller to all existing reinforced concrete. ed concrete that already exhibits corrosion. nen used prior to protective coatings in concrete restoration systems. lling and application. vapor diffusion. effective in both laboratory (ASTM G109/Cracked Beams) and field analysis. table water approved. on is 200 ft.²/gal. each coat. A minimum of two coats is always recommended on may exceed 300 ft.²/gal. Therefore, more than two coats may be required to rate: 100 ft.²/gal. allon drums. 73°F(23°C)] XSED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. 18 months minimum in original, unopened container. s Store at 40°-95°F (4°-35°C). Protect from freezing. If frozen, discard. Pale Yellow 15 cps None (water based)

How to Use Surface Preparation

Before applying Sika® FerroGard® 903 be sure the surface is clean and sound. Remove all dirt, dust, oil, grease, efflorescence or existing coatings from concrete surface by steam cleaning, water blasting or slightly sandblasting. Allow concrete surface to dry prior to application of Sika® FerroGard® 903. The dryer the surface the better the penetration and effectiveness.

Key Criteria	Performance Level	Test Method/Institute		
Corrosion inhibition	FerroGard corrosion inhibitors delay the onset of corrosion and reduce the rate of corrosion by 65% versus control specimen after 1 year.	1		
Penetration Rate in hardened concrete	FerroGard 903 penetrates independently of orientation (horizontal, vertical, overhead) at a rate of 1/10 to 4/5 inches (2.5 to 20 mm)per day, depending on the density of the concrete.	2		
Depth of Penetration	FerroGard 903 penetrates up to 3 inches (76 mm) in 28 days.	2		
Protective layer on steel	FerroGard 903 forms a protective layer on the reinforcing steel of high integrity measured at as much as100 Å in thickness.	3		
Displacement of chlorides from steel surface	FerroGard 903 forms a continuous film on the reinforcing steel and displaces chloride ions from the steel surface.	3		
Corrosion Rate Field Monitoring Reduction of corrosion rates in excess of 65%. 4				

Dr. J. 1 Goschn

- 3. X-ray Photon Spectroscopy (XPS) and Secondary Ion Mass Spectroscopy (SIMS) / Brundle and Associ-
- ates, San Jose, CA and University Heidelberg (Germany), Prof. M. Grunze.
- 4. Performance of Corrosion Inhibitors in Practice, Graeme Jones, C-Probe Technologies Ltd., 2000.

Application Sika® FerroGard® 903 is applied by roller, brush or spray on concrete surfaces. When spraying, use a conventional airless spray system or hand-pressure equipment. A minimum of two coats is always recommended. Dense substrates may require more coats. Waiting time between coats of Sika® FerroGard® 903 is at least 1 hour. Allow a minimum of one day to allow Sika® FerroGard® 903 to dry and penetrate.

> When Sika® FerroGard® 903 is used prior to the application of a repair mortar, concrete overlay, protective coating, or any other application, care must be taken to remove any residue remaining on the surface from the application of Sika® FerroGard® 903. Clean the substrate in such a manner (i.e. push the water in one direction away and off from the surface to be over-coated) to completely remove any residue. Horizontal surfaces require pressure washing (2,000 psi minimum) to remove the residue. Vertical surfaces may be rinsed with water or pressure washed. The use of Sika® Armatec® 110 EpoCem as a bonding agent prior to the application of repair mortars or concrete overlays is suggested. Drying times depend on environmental conditions, absorbency of the substrate and maximum recommended moisture content for the subsequently applied system.

Limitations

- Do not apply when temperature is expected to fall below 35°F within 12 hours.
 - If the applied surfaces will be submerged after the application of Sika® FerroGard® 903, a waterproofing coating must be applied prior to submersion.
 - Substrate should be as dry as possible prior to the application.

Minimum ambient and substrate temperatures 35°F.

- Protect glass, wood, brick, galvanized steel, copper and exposed aluminum during the application.
- Maximum chloride content of concrete structures intended to be treated with Sika[®] FerroGard[®] 903 is 6 lbs./ y³ (measured at the level of the reinforcing steel). For levels up to 10 lbs./y³, consult technical service.

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Product Data Sheet Edition 11.24.2014 Identification no. Sika® FerroGard®-908

Sika[®] FerroGard[®]-908

Dual functional surface applied corrosion inhibitor and penetrating sealer for reinforced concrete.

	Where to Us
\mathbf{O}	Advantages
	Packaging
	rachaying

Where to Use	Sika [®] FerroGard [®] -908 [®] is recommon cast, post tensioned concrete or co include:		
	include.	oncrete in marine environmen	
	 Bridges and highways exposed Building facades and balconie Parking garages Piers, piles, and concrete doc Vertical, horizontal and overhe As part of Sika's system approximation 	es k structures ead surfaces	
Advantages	 As part of Sika's system approving significantly reduces active concracked concrete Increases the resistivity of the Enhances the durability of reir Long term efficiency, deep per Does not require concrete rem Repels additional water and c Contains amino alcohol corros Ready to use and easily applie Adds additional benefits when tion systems. Not a vapor barrier; allows vap Proven effective per ASTM G² Increases the resistance of contains 	prrosion due to chlorides and reinforced concrete nforced concrete. netration noval. hloride ions. sion inhibitor. ed by spray or roller. n used prior to protective coat por diffusion. 109/Cracked Beams.	or carbonation, even in
Packaging	5 gallon pails, 55 gallon drums		
Coverage	Required consumption is 125 sf / g gallon/coat); however 3 coats ma achievable on porous concrete. S	y be required for dense con	crete and 1 coat may be
	Typical Data (Material and curi RESULTS MAY DIFFER BASED UPON STATISTICAL VA APPLICATION METHODS, TEST METHODS, ACTUAL S	ARIATIONS DEPENDING UPON MIXING METHOD	
	Storage:	Store in unopened, undamaged ing in dry and cool conditions. P	
	Shelf Life:	2 years from production date.	
	Product Conditioning:	Condition material between 40°l	F and 95°F
	Application Temperature Range:	40°F and 95°F	
	Sealer Type:	Alkylalkoxy Silane	
	Active Ingredient Content:	99% Close	
	Color:	Clear	
	VOC:	327 g/l	
	Flash Point:	104°F (40°C)	
	Chloride penetration(NCHRP 244)	@125 sq.ft./gal Series II – Absorbed chloride: Series IV – Absorbed chloride:	88% 98%

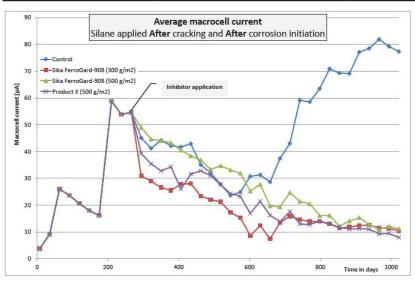


Corrosion Data

Cracked Concrete Beam (ASTM G 109 modified)

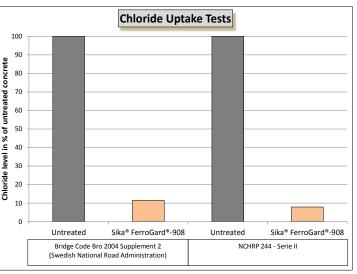
20 Ponding cycles: 2 weeks with 3.0% sodium chloride solution and 2 weeks drying at 68°F. After the 20th cycle, the concentration of the sodium chloride solution was increased to 5.0%

Application before cracking – Measurement after 2.5 years of ponding				
	MacroCell Current in µA	Corrosion reduction		
Untreated	81.9			
Sika [®] FerroGard [®] -908	6.9	92%		
Application after cracking – Me	asurement after 2.5 years of ponding			
	MacroCell Current in µA	Corrosion reduction		
Untreated	81.9			
Sika [®] FerroGard [®] -908	0.6	99%		
Application after cracking and after	er corrosion initiation – Measurement after 2	.5 years of ponding		
	MacroCell Current in µA	Corrosion reduction		
Untreated	81.9			
Sika® FerroGard®-908	10.9	87%		



Chloride ion uptake reduction

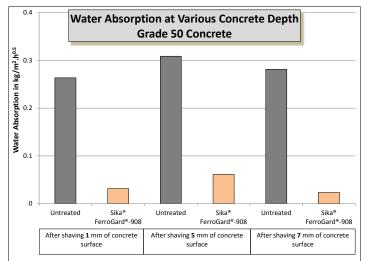
Compared to untreated concrete, concrete treated with Sika[®] FerroGard[®]-908 shows a significantly reduced chloride uptake (test carried out using various methods).





Water penetration reduction

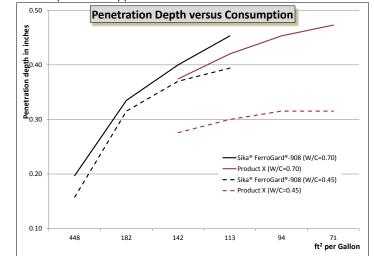
Test performed according to the European Standard EN 13057:2002 modified (100 mm sample size). Capillary absorption measurement were carried out after shaving 1, 5 and 7 mm of the concrete surface to assess the reduction of water absorption in the depth of the concrete surface.



Penetration depth

Sika[®] FerroGard[®]-908 is compared to a product available in the market on two types of concrete mixes (one concrete with water cement ratio of 0.70 and the second one with 0.45).

The results show clearly a higher penetration of **Sika®FerroGard®-908** into the test concrete when the same consumption was applied.



How To Use

 Surface Preparation
 Surfaces must be sound, clean, dry and free of frost, dirt, dust, loose concrete, grease, oil, contaminants or other foreign matter that may adversely affect the penetration of Sika FerroGard®-908. New concrete should cure a minimum of 28 days; however, sooner is possible, please contact Technical Services for more information. Concrete surfaces must be prepared using mechanical means (sandblast, shotblast, high pressure water, etc.). Cracks in concrete more than 12 mils should be repaired ahead of the treatment.

 Mixing
 None required, comes ready to use. Do not dilute with water or solvent.

 Application
 Apply using a low-pressure spray, brush or roller, in a single pass from the bottom up taking care not to let the product run. Apply subsequent coats wet on wet. Avoid ponding on the surface.



	If used as a corrosion treatment prior to the application of Sikagard [®] and Sikalastic [®] protective coatings please contact Sika Technical Services for more information.
	To ensure excellent bond, use of Sika [®] Concrete Repair Systems, sealants and coatings is strongly encouraged. Field mock ups are always recommended to verify final construction installation requirements.
	Do not apply Sika [®] FerroGard [®] -908 to wet or damp substrates. Do not apply if rain is expected within four hours following application, or if high winds or other conditions prevent proper application.
Limitations	 Areas such as window frames which still need to be painted must be protected, avoid contact with Sika FerroGard[®]-908. Can damage some coatings and bituminous products. May lead to darkening of concrete, apply sample areas first.
	Cannot be overcoated with limewash or cement paint.

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Product Data Sheet Edition 12.07.2015 Sikagard[®] 701W

Sikagard[®] 701W

Solvent-free, siloxane emulsion concentrate

Description	Sikagard [®] 701W is a solvent-free concentrate of silane modified siloxane emulsion. It must be diluted and the diluted liquid solution forms a water and chloride-ion repellent impregnation specifically for- mulated to seal absorbent cementitious surfaces and other masonry substrates.
Where to Use	 When diluted, use Sikagard[°] 701W as a colorless, non-vapor-barrier, water and chloride ion-repellent impregnation for absorbent materials. Treat concrete bridges, roadways, runways, parapet walls, precast, beams, columns, curbing, retaining walls, pavers, etc. Treat both new and existing structures. Treat masonry brickwork, stucco, etc. Porous architectural curtain wall panels. Use on steel-reinforced structures to reduce the corrosion and latent damage potential of chlorides.
Advantages	 Sikagard[°] 701W is both an economical and simple-to-use sealer. Because of its unique ability to decrease water and chloride intrusion, Sikagard[°] 701W helps reduce the danger of rebar corrosion. Sikagard[°] 701W: Meets the standards of acceptability for concrete sealers established in NCHRP Report #244. Enhances concrete integrity. Reduces efflorescence. Improves resistance to frost and de-icing salts (chloride ion). Reduces dirt penetration. Does not act as a vapor barrier. May be applied to alkaline substrates. Will not degrade under UV exposure.
Coverage	100-250 ft²/gal., (diluted concentrate) depending on porosity of substrate. For proven results against chloride-ion intrusion, 125 ft²/gal. is recommended.
Packaging	5 gal. pail.

Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

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Shelf Life	1 year in original, unopened containers (undiluted).
Storage	Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F (18°- 24°C) before using. Protect from freezing.
Color	white/opaque liquid
Mix Ratio	1 gal: 4 gal. tap water yields 5 gals. of sealer.
Viscosity	Approximately 5-20 cps.
% solids	50% (silane modified siloxane polymer)
% Non volatiles (ASTM D-5095)	Active level: 10% Solids: 10%
VOC	211 g/l 46 g/l as diluted
Flash Point	212°F
NCHRP244 Report Series 2 Test	
Reduction in Water Absorption	91%
Water Vapor Transmission	100%
Reduction in Cl ion intrusion	90%
Federal Spec SSW - 110C	Water absorption 0.97%



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How to Use	
Surface Preparation	Before applying Sikagard [®] 701W, be sure surface is clean and sound. The best impregnation is achieved on a dry, very absorbent substrate. Remove all grease, curing compounds, surface treatments, coating, oils, etc.
	Preparation Work: Concrete and masonry surfaces, sandblast, high pressure water blast or use other mechanical means.
Mixing	Dilute Sikagard [®] 701W concentrate with tap water in an appropriately sized mixing container. Mix with a low speed (400-600 rpm) drill with Sika paddle or comparable drum mixer until uniformly blended. Make sure paddle is completely covered so as not to entrain air. For best results, Sikagard [®] 701W should be remixed if unused 24 hours after blending with water.
Application	Apply by roller, brush (horizontal surfaces), or spray. Any pooling of water repellent indicates overdosing on a dense substrate while rapid absorption indicates a porous substrate. Variations in concentration down to 8:1 for dense substrates or coverage area, and/or multiple wet-on-wet applications for porous substrates may be utilized to achieve optimal substrate treatment. Preliminary site test application is recommended to determine effective coverage and performance. Maximum water repellency is gener- ally realized in 72 hours, but may take longer depending on surface and atmospheric conditions.
Limitations	 Adjacent surfaces such as window frames, glass, stainless steel, aluminum, etc., must be masked before application. Do not apply at a temperature below 40°F. Do not apply when substrate temperature exceeds 120°F. Material is not recommended for below-grade waterproofing. Do not apply through standing water. Material is not intended to seal visible cracks or crevices from moisture intrusion. Material is not intended for waterproofing under hydrostatic pressure. Performance and penetration depth are dependent upon the surface composition. Do not use on green concrete. When over-coating: an on-site adhesion test is essential to determine actual compatibility. Sikagard[®] 701W is not a carbonation barrier.

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Sikagard[®] 740 W

Silane based reactive water repellent penetrating sealer

strates such as: Walkways and ramps. Industrial floors. Exposed aggregate. Pre-cast or pre-placed concrete. Masonry. Parking decks. Stadiums. Bridge Decks. Bridge Decks. Advantages Good penetration. Economical and easy to use. Independent test data available. Independent test data available. Reduces capillary water absorption, protection against driving rain and splashing on vertical areas. Reduction of absorption of aggressive or deleterious agents dissolved in water (i.e. chlorides). Not a vapor barrier. Increases the resistance of concrete to freeze and thaw cycles and de-icing salts. Water based emulsion, Low VOC. Resistant to sea water. Ready and easy to use. Ready and easy to use. Coverage Coverage Coverage is entirely dependent on the porosity of the substrate. Extremely non-porous substrates mar require 1 coat. To ensure proper penetration depth, a field mock up is recommended: ~ 240-380 ft²/gal. Packaging 5 gallon pail, 55 gallon drum. Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, ACTUAL STE CONDITIONS AND CURING CONDITIONS. Shelf Life 9 months from date of prod		concentrated Silane emulsion. Sikagard [®] 740 W is classified 740 W complies with the high	low viscosity, reactive impregnation for concrete and cementitious substrates based on b. Sikagard [®] 740 W complies with the requirements of NCHRP Report 244 Series II & IV ad under the ALBERTA infrastructure and transportation specifications. Sikagard [®] hest requirements of EN 1504-2 for hydrophobic Impregnation (penetration depth ze-thaw cycles and chloride ion penetration).
 Economical and easy to use. Independent test data available. Reduces capillary water absorption, protection against driving rain and splashing on vertical areas. Reduction of absorption of aggressive or deleterious agents dissolved in water (i.e. chlorides). Not a vapor barrier. Increases the resistance of concrete to freeze and thaw cycles and de-icing salts. Water based emulsion, Low VOC. Ready and easy to use. Coverage Coverage is entirely dependent on the porosity of the substrate. Extremely non-porous substrates may require 1 coat. To ensure proper penetration depth, a field mock up is recommended: ~ 240-380 ft ⁹ /gal. Packaging 5 gallon pail, 55 gallon drum. Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.) Results MAY DIFFER BASED UFON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS. THETOOS, ACTUAL SITE CONDITIONS. Shelf Life 9 months from date of production. Storage Conditions Storage Conditions Correct from moisture. Product Conditioning Condition material between 40°F and 95°F. Sealer Type Alkylalkoxy Silane Active Ingredient Content 40% Base Water emulsion VOC VOC 4350 g/l Depth of Penetration - OHD L-34 Vater emulsion VOC VOC 4350 g/l Depth of Penetration - OHD L-34 Vater Repellance 86.3% Alkali Resistance 85.3% Vapor Transmission 72.3% NCHRP 244 Series II: (125 ff*/gal) Water Weight Gain 85%	Where to Use	 strates such as: Walkways and ramps. Industrial floors. Exposed aggregate. Pre-cast or pre-placed cor Masonry. Parking decks. Stadiums. 	
require 1 coat. To ensure proper penetration depth, a field mock up is recommended: ~ 240-380 ft²/gal. Packaging 5 gallon pail, 55 gallon drum. Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Shelf Life 9 months from date of production. Storage Conditions Store in unopened, undamaged and original sealed packaging in dry and cool co tions. Protect from moisture. Product Conditioning Condition material between 40°F and 95°F. Sealer Type Alkylalkoxy Silane Active Ingredient Content 40% Base Water emulsion VOC Storage 1 Alkylalkoxy Silane Active Ingredient OHD L-34 Alberta DOT Type 1a Alberta DOT Type 1a Alberta DOT Type 1a Alberta DOT Type 1b Water Repellance 85.3% Vapor Transmission 72.3% NCHRP 244 Series II: (125 ft²/gal) Water Weight Gain 85.5%	Advantages	 Economical and easy to us Independent test data avai Reduces capillary water at Reduction of absorption of Not a vapor barrier. Increases the resistance of Water based emulsion, Low Resistant to sea water. 	ailable. absorption, protection against driving rain and splashing on vertical areas. of aggressive or deleterious agents dissolved in water (i.e. chlorides). of concrete to freeze and thaw cycles and de-icing salts.
Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Shelf Life 9 months from date of production. Storage Conditions Store in unopened, undamaged and original sealed packaging in dry and cool cool tions. Protect from moisture. Product Conditioning Condition material between 40°F and 95°F. Sealer Type Alkylalkoxy Silane Active Ingredient Content 40% Base Water emulsion VOC <350 g/l	Coverage	Coverage is entirely depende require 1 coat. To ensure pro	dent on the porosity of the substrate. Extremely non-porous substrates may onl oper penetration depth, a field mock up is recommended: ~ 240-380 ft²/gal.
RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Sheif Life 9 months from date of production. Storage Conditions Store in unopened, undamaged and original sealed packaging in dry and cool cool tions. Protect from moisture. Product Conditioning Condition material between 40°F and 95°F. Sealer Type Alkylalkoxy Silane Active Ingredient Content 40% Base Water emulsion VOC <350 g/l	Packaging	5 gallon pail, 55 gallon drum.).
Storage Conditions Store in unopened, u		RESULTS MAY DIFFER BASED UP TEMPERATURE, APPLICATION ME	IPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, IETHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.
Sealer TypeAlkylalkoxy SilaneActive Ingredient Content40%BaseWater emulsionVOC<350 g/lDepth of Penetration - OHD L-34<10 mmAlberta DOT Type 1a129ft?/US GallonAlberta DOT Type 1bWater Repellance86.3%Vapor Transmission85.3%VCHRP 244 Series II: (125 f²/gal)Water Weight Gain85%			Store in unopened, undamaged and original sealed packaging in dry and cool condi-
Active Ingredient Content 40% Base Water emulsion VOC <350 g/l			
Base Water emulsion VOC <350 g/l		Product Conditioning	Condition material between 40°F and 95°F.
VOC<350 g/lDepth of Penetration - OHD L-34<10 mmAlberta DOT Type 1a29ft²/US GallonAlberta DOT Type 1bWater Repellance86.3%Alkali Resistance85.3%Vapor Transmission72.3%NCHRP 244 Series II: (125 ft²/gal)Water Weight Gain85%		-	
Depth of Penetration - OHD L-34 <10 mm		Sealer Type	Alkylalkoxy Silane
Alberta DOT Type 1a 129ft²/US Gallon Alberta DOT Type 1b		Sealer Type Active Ingredient Content	Alkylalkoxy Silane 40%
Alberta DOT Type 1b 86.3% Water Repellance 86.3% Alkali Resistance 85.3% Vapor Transmission 72.3% NCHRP 244 Series II: (125 ft²/gal) Water Weight Gain 85%		Sealer Type Active Ingredient Content Base	Alkylalkoxy Silane 40% Water emulsion
Water Repellance 86.3% Alkali Resistance 85.3% Vapor Transmission 72.3% NCHRP 244 Series II: (125 ft²/gal) Water Weight Gain 85%		Sealer Type Active Ingredient Content Base VOC	Alkylalkoxy Silane 40% Water emulsion <350 g/l
Alkali Resistance 85.3% Vapor Transmission 72.3% NCHRP 244 Series II: (125 ff²/gal) Water Weight Gain 85%		Sealer Type Active Ingredient Content Base VOC Depth of Penetration - OHD L-	Alkylalkoxy Silane 40% Water emulsion <350 g/l L-34 <10 mm
Vapor Transmission 72.3% NCHRP 244 Series II: (125 ff²/gal) Water Weight Gain 85%		Sealer Type Active Ingredient Content Base VOC Depth of Penetration - OHD L- Alberta DOT Type 1a	Alkylalkoxy Silane 40% Water emulsion <350 g/l L-34 <10 mm
NCHRP 244 Series II: (125 ft²/gal) Water Weight Gain 85%		Sealer Type Active Ingredient Content Base VOC Depth of Penetration - OHD L- Alberta DOT Type 1a Alberta DOT Type 1b	Alkylalkoxy Silane 40% Water emulsion <350 g/l L-34 <10 mm 129ft²/US Gallon
Water Weight Gain 85%		Sealer Type Active Ingredient Content Base VOC Depth of Penetration - OHD L- Alberta DOT Type 1a Alberta DOT Type 1b Water Repellance	Alkylalkoxy Silane 40% Water emulsion <350 g/l <10 mm 129ft²/US Gallon 86.3%
		Sealer Type Active Ingredient Content Base VOC Depth of Penetration - OHD L- Alberta DOT Type 1a Alberta DOT Type 1b Water Repellance Alkali Resistance	Alkylalkoxy Silane 40% Water emulsion -350 g/l L-34 <10 mm 129ft²/US Gallon 86.3% 85.3%
Absorbed Chloride 96%		Sealer Type Active Ingredient Content Base VOC Depth of Penetration - OHD L- Alberta DOT Type 1a Alberta DOT Type 1b Water Repellance Alkali Resistance Vapor Transmission	Alkylalkoxy Silane 40% Water emulsion -350 g/l -10 mm 129ft²/US Gallon 86.3% 85.3% 72.3%
		Sealer Type Active Ingredient Content Base VOC Depth of Penetration - OHD L- Alberta DOT Type 1a Alberta DOT Type 1b Water Repellance Alkali Resistance Vapor Transmission NCHRP 244 Series II: (125	Alkylalkoxy Silane 40% Water emulsion L-34 <350 g/l 10 mm 129ft²/US Gallon 86.3% 85.3% 72.3%
		Sealer Type Active Ingredient Content Base VOC Depth of Penetration - OHD L- Alberta DOT Type 1a Alberta DOT Type 1b Water Repellance Alkali Resistance Vapor Transmission NCHRP 244 Series II: (125 Water Weight Gain	Alkylalkoxy Silane 40% Water emulsion L-3↓ 350 g/l 10 mm 129ft²/US Gallon 86.3% 85.3% 72.3% 25 ft²/gal) 85%

	NCHRP 244 Series IV	: (125 ft²/gal)		
	Absorbed Chlorid	9	79.1%	
	90 Day Salt Ponding	- AASHTO T 259	0.0-0.5"	93%
			0.5-1.0"	73%
			1.0-1.5"	74%
	Scaling Resistance -		None	
	90 Day Salt Ponding	- AASHTO T 259	0.0-0.5"	93%
			0.5-1.0"	73% 74%
	Scaling Resistance -	ASTM C672	1.0-1.5" None	74%
	ocaling resistance -	A0111 0072.	None	
How to Use Surface Preparation		0		s old concrete – however, due to its hig er penetration might then be expected
				rfaces to be sealed must be dry, clea face treatments, coatings, oils, etc.
	Preparation Work: shotblast, high press tion of the hydropho	Concrete and mason sure water, etc.). Crac bic treatment. If using	ry surfaces must be prepar ks in concrete more than 1	ed using mechanical means (sandblas 2 mils must be repaired prior to applic should be visibly dry (i.e. no damp/da
Mixing	Sikagard [®] 740 W is	supplied ready for use	and must not be diluted.	
Application	Substrate and ambi	ent temperature for a	pplication should be betwe	en 40°F and 95°F. Sikagard [®] 740 W
	applied using a low- not to let the product	pressure spray, airles run. Apply subseque	s spray, brush or roller, in a	single pass from bottom up taking ca e required consumption is achieved. C
Over Painting	Can be overcoated v recommendations.	with water and solvent	based polymer paint - cont	act the proposed paint manufacturer
	etration of water is the risk of consequentian compatibility under f	hus prevented at pose I damages such as p ield conditions by use	sible weak spots or in the e aint flaking can be reduce of a mock-up.	any Sikagard [®] protective coatings. Per event of damage to the top coat and t d. Sika always recommends evaluati
	•	um 5 hours, maximum		
Limitations	to its high alkali i expected.	resistance; it is still po indow frames which s	ssible to apply it at an early	3 days old concrete – however, due v age – lower penetration might then b be securely covered to avoid contact
	taminated with S ■ Sikagard [®] 740 W	ikagard [®] 740 W. / can damage some c	oatings and bituminous pro	
		kagard [®] 740 W might oated with limewash o		oncrete, apply sample areas first.
	 Apply Sikagard[®] 	740 W onto a sample	area to confirm consumpti	on rates versus penetration depth. arding surface preparation, application
INS SHI PAI TO RE	TRUCTIONS ON THE PI EET WHICH ARE AVAIL/ RTMENT AT 800.933.745 READ AND FOLLOW TH NT PRODUCT DATA SHE	RODUCT'S MOST CUR ABLE ONLINE AT HTTP 2 NOTHING CONTAINE IE WARNINGS AND INS EET, PRODUCT LABEL	RENT PRODUCT DATA SHEI ://USA.SIKA.COM/ OR BY C/ D IN ANY SIKA MATERIALS R ITRUCTIONS FOR EACH SIK AND SAFETY DATA SHEET P	EAD AND FOLLOW THE WARNINGS AN ET, PRODUCT LABEL AND SAFETY DA ALLING SIKA'S TECHNICAL SERVICE D ELIEVES THE USER OF THE OBLIGATIC A PRODUCT AS SET FORTH IN THE CU RIOR TO PRODUCT USE. ORINDUSTRIAL USE ONLY. FOR PROFESSIONAL USE OI
For f actu	urther information and advi al Safety Data Sheets contai	ce regarding transportatio ning physical, ecological, to	n, handling, storage and disposa	l of chemical products, users should refer to t ed data. Read the current actual Safety Data Sh
Data ment for e	Sheet, product label and Sa t at 800-933-7452. Nothing co	fety Data Sheet which are a ontained in any Sika materia	vailable online at http://usa.sika.c	nstructions on the product's most current Prod om/ or by calling Sika's Technical Service Dep on to read and follow the warnings and instruct / Data Sheet prior to
the c Buye EXPI SHA THE SALI CALI	urrent Product Data Sheet if rr's sole remedy shall be limit RESS OR IMPLIED SHALL AI LL NOT BE LIABLE UNDER A USE OF THIS PRODUCT IN A	used as directed within she ted to the purchase price or PPLY INCLUDING ANY WAF INY LEGAL THEORY FOR S MANNER TO INFRINGE ON / E SUBJECT SIKA'S TERM	If life. User determines suitability replacement of product exclusive RANTY OF MERCHANTABILITY C PECIAL OR CONSEQUENTIAL DAI ANY PATENT OR ANY OTHER INTEI	g defects and to meet the technical properties of product for intended use and assumes all ris of labor or cost of labor. NO OTHER WARRANT IR FITNESS FOR A PARTICULAR PURPOSE. S WAGES. SIKA SHALL NOT BE RESPONSIBLE F LECTUAL PROPERTY RIGHTS HELD BY OTHE AVAILABLE AT HTTP://USA.SIKA.COM/ OR 1-800-933-SIKA NATIONWIDE
	ional Information and Sale	s Centers. For the locatio	n of your nearest Sika sales office	e, contact your regional center.
Ka j	Sika Corporation 201 Polito Avenue Lyndhurst, NJ 07071 Phone: 800-933-7452 Fax: 201-933-6225	Sika Canada Inc. 601 Delmar Avenue Pointe Claire Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792	Sika Mexicana S.A. de Carretera Libre Celaya Fracc. Industrial Balvar Corregidora, Queretaro C.P. 76920 Phone: 52 442 238580	Km. 8.5 hera RESPONSIBLE CARE RESPONSIBLE CARE RESPONSIBLE CARE RESPONSIBLE CARE

Corregidora, Queretaro C.P. 76920 Phone: 52 442 2385800 Fax: 52 442 2250537



Sikagard[®] 705 L

Silane based reactive water repellent penetrating sealer

Description	substrates based on silane te requirements of EN 1504-2 fo	chnology w or hydropho	ith 99% a blic Impre	t free, reactive impregnation for concrete and cementitious ctive ingredient. Sikagard®-705 L complies with the highes gnation (penetration depth class II & resistance to freeze- sted in accordance with NCRHP 224 Series II & IV.
Where to Use	Sikagard® 705 L is used as wastrates such as: Parking decks Bridge decks Concrete highway surface Ramps and Barriers Cooling Towers Stadiums Natural stone substrates Many other traffic bearing	es	·	ating sealer (hydrophobic treatment) for absorbent sub- substrates and structures
Advantages	 Reduction of absorption o chloride from marine envii Non vapor barrier. Long term efficiency, deep 	ise. Ibsorption, If aggressiv ronment).	protection e or delet	against driving rain and splashing on vertical areas. erious agents dissolved in water (i.e. de-icing salts or and thaw cycles and de-icing salts.
Coverage		the substra	te as well	as the required penetration depth: 240-360 ft²/ gal per coat
Cure Mechanism	Sikagard [®] 705 L does not requi	ire any spec	cial curing	but must be protected from rain for at least 3 hours at +68°F.
Packaging	5 gal. pail, 55 gal. drum.			
	RESULTS MAY DIFFER BASED UPO	ON STATISTIC	AL VARIATIO	ns @ 73°F (23°C) and 50% R.H.) DNS DEPENDING UPON MIXING METHODS AND EQUIPMENT, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.
	Shelf Life	2 years f	rom produ	uction date.
	Storage Conditions	cool con	ditions. Pr	, undamaged and original sealed packaging in dry and otect from moisture.
	Product Conditioning	Conditio		between 40°F and 95°F.
	Sealer Type		•	oxy Silane
	Active Ingredient Content		~100%	
	VOC		327g/l	
	Application Thickness		7 mils	
	Depth of Penetration - OHI	D L-34	>10 mm	
	Flash Point		104°F (4	40°C)
	Alberta DOT Type 1c			
	Water Repellance after	Heavy Abr	asion	85.3%
	Alkali Resistance			84.8%
	Vapor Transmission			106.9%
	NCHRP 244: (125 ft²/gal)			
	Series II - Absorbed Ch	loride		88%

PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE-PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

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	Series IV - Absorbed Chloride Water Absorption - ASTM C642 Scaling Resistance - ASTM C672 90 Day Salt Ponding - AASHTO T 259	98% .06% (24 hrs)/.1% (48 hrs) None 82.6% (.5-1")	
How to Use			
Surface Preparation	alkali resistance, it is still possible to apply as earl penetration depth. Best results are achieved on a	s applied on 28 days old concrete – however, due to its high y as 3 days. Testing should always be done to ensure proper dry, very absorbent substrate. All surfaces to be sealed must all grease, curing compounds, surface treatments, coatings,	
	Preparation Work : Concrete, masonry and natural stone surfaces must be prepared using mechanical means (sandblast, shotblast, pressure wash, etc.). Cracks in concrete more than 12 mils must be repaired prior to application of the hydrophobic treatment. If using water to clean, substrate should be visibly dry (i.e. no damp/ dark patches) before coating. Surface moisture as measured by Tramex [®] should read 6% or lower.		
Mixing	Sikagard® 705 L is supplied ready to use and mu	st not be diluted.	
Application	Sikagard [®] 705 L is applied using a low-pressure spray, brush or roller, in a single pass from bottom up taking care not to let the product run. Apply subsequent coats wet on wet. Avoid ponding on the surface.		
Over Painting	Can be over-coated with water and solvent based polymer paint - contact the proposed paint manufacturer for recommendations. Sikagard® 705 L can be used as a water repellent primer under many Sikagard® protective coatings. Penetration of water is thus prevented at possible weak spots or in the event of damage to the top coat and the risk of consequential damages such as paint flaking can be reduced. Waiting time for Sikagard® over-coating: minimum 5 hours, maximum 1 week.		
Limitations	 its high alkali resistance, it is still possible to a always be done prior to application on early a Areas such as window frames which still nee with Sikagard[®] 705 L. 	crete, apply sample areas first.	

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KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY.

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart-ment at 800-333-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.



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1-800-933-SIKA NATIONWIDE



Construction

Sikagard[®] 706 Thixo Silane based water repellent impregnation cream

Description	80% content of active substa	ance. Sikagard [®] 70 n (penetration dep	e based impregnation cream. It is a solvent free product with ~ 16 Thixo complies with the highest requirements of EN 1504-2 th class II & resistance to freeze-thaw cycles and chloride ion & IV.	
Where to Use	Sikagard [®] 706 Thixo is used strates such as: Marine structures Pilings Piers Bridge decks Building facades	as water-repellent	impregnation (hydrophobic treatment) for absorbent sub-	
Advantages	 Non-sag (thixotropic) consistency, allowing wastage-free application of sufficient quantities and assurd deep penetration. Reduction of water absorption. Reduction of absorption of aggressive or deleterious agents dissolved in water (i.e. de-icing salts or chloride from marine environment). No noticeable change of water vapor permeability. Not film forming. Ready to use. Long term efficiency, deep penetration. Increases the resistance of concrete to freeze and thaw cycles and de-icing salts. Resistant to sea water. Low VOC content. Waste free. Non Vapor Barrier. 			
Coverage	The exact amount depends of agent might liquefy at the top	Between ~200-250 ft ² /gal. can be applied in one operation to vertical and sloped surfaces without loss of materia. The exact amount depends on the absorbency of the substrate. At higher application rates, the impregnatin agent might liquefy at the top of the concrete and it may start to run off. A second coat may be applied at an time but is usually unnecessary. A preliminary trial should be carried out to assess the penetration depth in the		
Packaging	5 gallon pail, 55 gallon drum			
	Typical Data (Material and cu	ring conditions @ 7	'3°F (23°C) and 50% R.H.)	
			IATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT,	
	TEMPERATURE, APPLICATION MI Shelf Life		DDS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Jate of production.	
	Storage Conditions		ged and unopened original sealed packaging in dry and cool condi-	
	Product Conditioning	+40°F min. / +10	0°F max.	
	Chemical Base	Silane (~ 80% ac	tive ingredient)	
	Density	~ 900 g/l		
	pH Value	~ 8		
	VOC	<320 g/l		
	Resistance to Freeze-Thaw-S	alts Stress	Comply (EN 13581)	
	Depth of Penetration Class II Test performed on concrete v		≥ 10 mm	
	Water Absorption		<7.5% (EN 13580)	
	Drying Rate Coefficient Resis	stance	Class I: > 30% (EN 13579)	
	Alkali Resistance		< 10%	
	penetration depth, alkali resista	of LPM-qualification ince, water vapor diff of the "Bro 2002" Swe	test to SIA 162/5, Report A-20 450-1 of 19.04.1999. (Water absorption usion, resistance to freeze thaw cycles and de-icing salts). edish National Road Administration (SNRA) publication No. VV2002:4	
ka®	INSTRUCTIONS ON THE PRODUC SHEET WHICH ARE AVAILABLE O PARTMENT AT 800.933.7452 NOTH TO READ AND FOLLOW THE WAR	T'S MOST CURREN NLINE AT HTTP://U ING CONTAINED IN NINGS AND INSTRI	USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AN IT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DAT SA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE D ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATIC JCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUI 9 SAFETY DATA SHEET PRIOR TO PRODUCT USE.	

How to Use Surface Preparation	Best results are achieved when Sikagard [®] 706 Thixo is applied on 28 days old concrete – however, due to its high alkali resistance, it is still possible to apply it as early as 3 days. Best results are achieved on a dry, very absorbent substrate. All surfaces to be sealed must be dry, clean, sound before application. Remove all grease, curing compounds, surface treatments, coatings, oils , etc.
	Preparation Work : Concrete and masonry surfaces must be prepared using mechanical means (sandblast, shotblast, high pressure water, etc.). Cracks in concrete more than 12 mils must be repaired prior to application of the hydrophobic treatment.
Mixing	Sikagard® 706 Thixo is supplied ready for use and should not be thinned or diluted.
Application	Sikagard® 706 Thixo is applied using airless spray, brush or roller, from bottom up.
Over Painting	Can be over-coated with water and solvent based polymer paint - contact the proposed paint manufacturer for recommendations. Sikagard [®] 706 Thixo can be used as water repellent primer under many Sikagard [®] protective coatings. Penetration of water is thus prevented at possible weak spots or in the event of damage to the top coat and the risk of consequential damages such as paint flaking can be reduced. Waiting time for Sikagard [®] over-coating: minimum 5 hours, maximum 1 week.
Limitations	 Best results are achieved when Sikagard® 706 Thixo is applied on 28 days old concrete – however, due to its high alkali resistance, it is still possible to apply it as early as 3 days. Areas such as window frames which still need to be painted must be securely covered to avoid contact with Sikagard® 706 Thixo. Areas not to be impregnated such as window panes need to be protected from being accidentally contaminated with Sikagard® 706 Thixo. Sikagard® 706 Thixo can damage some coatings and bituminous products. Sikagard® 706 Thixo can lead to darkening of concrete, apply sample areas first. Cannot be over-coated with limewash or cement paint. Apply Sikagard® 706 Thixo onto a sample area to confirm consumption rates versus required penetration depth.

PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

KEEP CONTAINER TIGHTLY CLOSED, KEEP OUT OF REACH OF CHILDREN, NOT FOR INTERNAL CONSUMPTION, FOR INDUSTRIAL USE ONLY, FOR PROFESSIONAL USE ONLY.

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart-ment at 800.933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

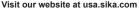
SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.

Fracc. Industrial Balvanera

Corregidora, Queretaro

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C.P. 76920



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Regional Information and Sales Centers. For the location of your nearest Sika sales office, contact your regional center.

Sika Corporation 201 Polito Avenue Lyndhurst, NJ 07071 Phone: 800-933-7452 Fax: 201-933-6225

Sika Canada Inc. 601 Delmar Avenue Pointe Claire Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792

1-800-933-SIKA NATIONWIDE

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Sika Mexicana S.A. de C.V. Carretera Libre Celaya Km. 8.5





Sikagard[®] 550W Elastocolor

550W E gasses.	Elastocolor provides prote . It offers high resistance to	ction to reinforced to chlorides and of	d concrete from ther waterborne	the ingress of c e salts and exce	arbon dioxide ar ellent UV light res	nd other aggressiv sistance. Sikagaro
Protective, crack-bridging coating for concrete, mortar, stucco, masonry, and exterior finishing systems subjec to cracking/dynamic movement. For use on building and civil engineering structures subject to cracking or as the top coat in complete repair and protection systems.						
 Exce Vap Prove Crace Exce Can Good Extreme Non 	ellent carbonation barrie or permeable. vides resistance to weat ck bridging properties m ellent long term UV light be applied by brush, ro od color stability. remely resistant to dirt pi b-flammable as a system	er. thering and frost. taintained at low t resistance. oller, or airless sp ick up and milde n.	temperatures. pray.			
ʻdry' filn Consur unavoio	m thickness: 8 mils/coat. mption is dependent on p dable variation in applied	. Normal coating porosity of subst d film thickness,	g system is two rate. In additio loss and waste	o coats at a to n, allowance n e. Sikagard [®] El	tal dry film thick nust be made for	ness of 16 mils or surface profile
5 gal. F	Pails					
	Typical Data					
	RESULTS MAY DIFFER BAS					
					TIONS AND CURIN	G CONDITIONS.
	Storage Conditions	Store dry at 40°	°-95°F (4°-35°C) Condition mat		(15°-25° C)
	Colors			-		
		ture, freezing, o	contamination,			em from mois-
	Smooth 550W	62%	55%			
	-					
	Tensile Strength	31W D-412 moun	200 psi	iys cure)		
	Elongation at Break			°F (23°C)		
	-		1100 psi			
	Elongation at Break at (J°F (-18°C)	225%			
	Sikagard [®] 552W Pr Sikagard [®] 550W Rain resistant (at 7 (Note: Over coating old	rimer+Sikagard® 5 5% R.H.) d coatings will incl	550W rease the waitir			85°F (30°C) 6 hours 6 hours 2 hours
	μ - value H_2O (diffusion	coefficient) = 2,1	46	min uncknes:	5)	
			*After 2		ess)	
	R (equivalent air thickne	ess) =	299 ft. (9			
	Static (at -4°F/-20°0	C)	30 mils			
	550WE gasses 550WE Protect to crack the top Can Exc Vap Prov Crac Exc Can Goc Extr Non Eas Theore 'dry' filr Consur unavoid a first c	550W Elastocolor provides protegasses. It offers high resistance to 550W Elastocolor will not act as Protective, crack-bridging coatilito cracking/dynamic movement the top coat in complete repair Can bridge dynamically move Excellent carbonation barrier Vapor permeable. Provides resistance to weat Crack bridging properties m Excellent long term UV light Can be applied by brush, ro Good color stability. Extremely resistant to dirt pi Non-flammable as a system Easily maintained silk finish. Theoretical yield per coat: 100 f 'dry' film thickness: 8 mils/coat Consumption is dependent on punavoidable variation in applied a first coat in a two coat system 5 gal. Pails Typical Data RESULTS MAY DIFFER BAS TEMPERATURE, APPLICAT Shelf Life Storage Conditions Colors Pot Life Solids Content Smooth 550W Sikagard® 552W Tensile Strength at 0°F Elongation at Break Tensile Strength at 0°F Elongation at Break at 0 Waiting Time (between Sikagard® 552W) Tensile Strength at 0°F Elongation at Break at 0 Waiting Time (between Sikagard® 552W) Rain resistant (at 7 (Note: Over coating old Waiting Time (between Sikagard® 552W) Resultary and s50W Rain resistant (at 7	550W Elastocolor provides protection to reinforced gasses. It offers high resistance to chlorides and o 550W Elastocolor will not act as a vapor barrier a Protective, crack-bridging coating for concrete, it to cracking/dynamic movement. For use on built te top coat in complete repair and protections • Can bridge dynamically moving cracks. • Excellent carbonation barrier. • Vapor permeable. • Provides resistance to weathering and frost • Crack bridging properties maintained at low • Excellent long term UV light resistance. • Can be applied by brush, roller, or airless sp • Good color stability. • Extremely resistant to dirt pick up and milde • Non-flammable as a system. • Easily maintained silk finish. Theoretical yield per coat: 100 ft²/gal/coat. Recordry film thickness: 8 mils/coat. Normal coating Consumption is dependent on porosity of subst unavoidable variation in applied film thickness, a first coat in a two coat system of Sikagard® 55 5 gal. Pails Typical Data RESULTS MAY DIFFER BASED UPON STATISTIT TEMPERATURE, APPLICATION METHODS, TES Shelf Life 2 years in origit Storage Conditions Store dry at 40 before using. P Colors 469 standard 0 Pot Life Indefinite, provulation at Break Tensile Properties (ASTM D-412 modi	550W Elastocolor provides protection to reinforced concrete from gasses. It offers high resistance to chlorides and other waterborne 550W Elastocolor will not act as a vapor barrier and will enhance to cracking/dynamic movement. For use on building and civil the top coat in complete repair and protection systems. • Can bridge dynamically moving cracks. • Excellent carbonation barrier. • Vapor permeable. • Provides resistance to weathering and frost. • Crack bridging properties maintained at low temperatures. • Excellent carbonation barrier. • Vapor permeable. • Provides resistance to weathering and frost. • Crack bridging properties maintained at low temperatures. • Excellent long term UV light resistance. • Can be applied by brush, roller, or airless spray. • Good color stability. • Extremely resistant to dirt pick up and mildew. • Non-flammable as a system. • Easily maintained silk finish. Theoretical yield per coat: 100 ff?/gal/coat. Recommended we dry film thickness: 8 mils/coat. Normal coating system is two Consumption is dependent on porosity of substrate. In additio unavoidable variation in applied film thickness, loss and waste a first coat in a two coat system of Sikagard® 550W Elastocol 5 gal. Pails Typical Data RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACT TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACT TEM	50W Elastocolor provides protection to reinforced concrete from the ingress of of gasses. It offers high resistance to chlorides and other waterborne salts and excos 50W Elastocolor will not act as a vapor barrier and will enhance the appearant Protective, crack-bridging coating for concrete, mortar, stucco, masonry, and to cracking/dynamic movement. For use on building and civil engineering st the top coat in complete repair and protection systems. • Can bridge dynamically moving cracks. • Excellent carbonation barrier. • Vapor permeable. • Provides resistance to weathering and frost. • Crack bridging properties maintained at low temperatures. • Excellent long term UV light resistance. • Can be applied by brush, roller, or airless spray. • Good color stability. • Extremely resistant to dirt pick up and mildew. • Non-flammable as a system. • Easily maintained silk finish. • Theoretical yield per coat: 100 ft²gal/coat. Recommended 'wet' film thicknese d'n' film thicknese silos. Normal coating system is two coats at a to Consumption is dependent on porosity of substrate. In addition, allowance nunavoidable variation in applied film thickness, loss and waste. Sikagard* E a first coat in a two coat system of Sikagard* 550W Elastocolor. 5 gal. Pails • Typical Data • RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPC TEMPERATURE, APPLICATION METHODS, ACTUAL SITE COND TEMPERATURE, APPLICATION METHODS, AC	to cracking/dynamic.movement. For use on building and civil engineering structures subject the top coat in complete repair and protection systems. • Can bridge dynamically moving cracks. • Excellent carbonation barrier. • Vapor permeable. • Provides resistance to weathering and frost. • Crack bridging properties maintained at low temperatures. • Excellent tong term UV light resistance. • Can be applied by brush, roller, or airless spray. • Good color stability. • Extremely resistant to dirt pick up and mildew. • Non-flammable as a system. • Easily maintained silk finish. Theoretical yield per coat: 100 ft ⁹ /gal/coat. Recommended 'wet' film thickness: 16 mils/coat 'dry' film thickness: 8 mils/coat. Normal coating system is two coats at a total dry film thick Consumption is dependent on prosity of substrate. In addition, allowance must be made for unavoidable variation in applied film thickness, loss and waste. Sikagard* Elastic Base Coa a first coat in a two coat system of Sikagard* 550W Elastocolor. 5 gal. Pails Typical Data Typical Data Typical Data Store dry at 40°-95°F (4°-35°C) Condition material to 60°-75°F before using. Protect from freezing. If frozen discard. Colors 4 40° standard colors. Custom color-matching available. Pot Life 1 Indefinite, provided proper care is taken in protecting the syst ture, freezing, contamination, or evaporation. Solids Content b weight b y volume Smooth 550W 6 2% b 5% Sikagard* 552W 2 0% 1 7% Tensile Properties (ASTM D412 modified after 21 days cure) Tensile Strength at 0°F (-18°C) 2 25% Witing Time (between cost) and Curing Rates 4 50°K 5 5 (8°C) 68°F (2°C°C) 5 Sikagard* 552W 1 2 hours 1 2 hours

PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE-PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

Resistance to Wind Driven Rain (TT-C-555B) No passage of water through the coating Flame Spread and Smoke Development (ASTM E-84-94)

	Flame Spread and Smoke Development (ASTM E-84-94) Flame Spread: 5 Smoke Development: 5 Class Rating: A
	Weathering (ASTM G-23) 10,000 hours Excellent, no chalking or cracking
How to Use	
Surface preparation	All surfaces to be coated must be dry, clean, sound, and frost free with curing compound residues and any other foreign matter removed. An open textured sandpaper like surface is ideal (CSP-3). Where necessary, surfaces should be prepared mechanically by blast cleaning or high speed pressure waterjetting. Allow adequate time for drying. Bug holes, cracks or irregularities of substrate should be filled and leveled with SikaTop [®] , SikaRepair [®] , SikaQuick [®] or acrylic surface fillers as appropriate. Cracks 1/32" or greater should be routed and sealed with a polyurethane sealant before coating. Priming : All porous areas or concrete with excessive porosity should be primed using Sikagard [®] 552W Primer
	or SikaLatex® R to allow easy application of Sikagard® 550W Elastocolor.
Mixing	Stir the coating to ensure uniformity using a slow speed (400-600 rpm) drill and 1/2" jiffy style mixing paddle. To minimize color variation when using multiple units, blend two pails of Sikagard [®] 550W Elastocolor. Use one pail and maintain the second pail to repeat this procedure (boxing) for the entire application.
Application	Any areas of glass or other surfaces should be masked. Recommended application temperatures (ambient and substrate) 45°-95°F (7°-35°C). Sikagard [®] 550W Elastocolor can be applied by brush, roller, or spray over entire area moving in one direction. Allow a minimum of two hours prior to re-coating. At lower temperatures and high humidity, waiting time will be prolonged. At higher temperatures, work carefully to maintain a wet edge. As with all coatings, job site mock-ups should always be completed to confirm acceptability of workmanship, material and aesthetics.
	NOTE: To achieve a dry film thickness of 16 mils, two coats should be anticipated. For maximum adhesion, (especially on porous substrates) the use of Sikagard [®] 552W is recommended. Sikagard [®] 552W primer can be applied by brush or roller. Brushing provides more even and pore free coats and better penetration.
Limitations	 Not designed for use as a traffic bearing surface. Substrates must be dry prior to application. Minimum age of concrete prior to application is 14 days, depending on curing and drying conditions (moisture content must be below 5%). Minimum age of SikaTop[®], SikaRepair[®], or SikaQuick[®] prior to application is three days, depending on curing and drying conditions (moisture content must be below 5%). Allow sufficient time for substrate to dry after rain or other inclement conditions. Protect from freezing. If frozen, discard. Sikagard[®] 550W Elastocolor should not be applied at relative humidity greater than 90%, or if rain is forecast within the specified rain resistance period. Maximum crack width 1/32". During application, regular monitoring of the wet film thickness and material consumption is advised to ensure that the correct layer thickness is achieved. When over-coating existing coatings, compatibility and adhesion testing is recommended. When over-coating Sikaflex[®] sealants, a prime coat of Sikagard[®] 550W Elastocolor Accent Base Coat may be necessary over the sealant to minimize dirt pick up on cured coating. Do not store Sikagard[®] 550W Elastocolor in direct sunlight for prolonged periods. Strong winds can cause shrinkage if material is applied at lower temperatures. Ensure that the primer is thoroughly dry before over-coating to prevent formation of bubbles and blisters, particularly in warmer weather. Not recommended for roofing.
INS SHE PAF TO	IOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND STRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA EET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE- RTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR- NT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.
	container tightly closed. Keep out of Reach of Children. Not For Internal Consumption. For Industrial Use OnLY. For Professional Use OnLY. wrther information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the a Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet

actual safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart-ment at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.

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Product Data Sheet Edition 7.19.2016 Sikagard®-550 W CA Elastocolor

Sikagard[®]-550 W CA Elastocolor

Description	Sikagard 550 W CA Elastocolor is an elastomeric, crack-bridging, anti-carbonation, acrylic protective coating. Sikagard 550 W CA Elastocolor provides protection to reinforced concrete from the ingress of carbon dioxide and other aggressive gasses. It offers high resistance to chlorides and other waterborne salts and excellent UV light resistance. Sikagard 550 W CA Elastocolor will not act as a vapor barrier and will enhance the appearance of the structure.						
Where to Use	Protective, crack-bridging coating for concrete, mortar, stucco, masonry, and exterior finishing systems subject to cracking/dynamic movement. For use on building and civil engineering structures subject to cracking or as the top coat in complete repair and protection systems.						
Advantages	 Can bridge dynamically moving cracks. Excellent carbonation barrier. Vapor permeable. Provides resistance to weathering and frost. Crack bridging properties maintained at low temperatures. Excellent long term UV light resistance. Can be applied by brush, roller, or airless spray. Good color stability. Extremely resistant to dirt pick up and mildew. Non-flammable as a system. Easily maintained silk finish. 						
Coverage	ʻdry' fili Consui unavoi	tical yield per coat: 100 m thickness: 8 mils/coa mption is dependent on dable variation in applie coat in a two coat syste	at. Normal coating porosity of subst ed film thickness,	system is two rate. In addition loss and waste	o coats at a to n, allowance n e. Sikagard® El	tal dry film thick nust be made fo	ness of 16 mils. or surface profile,
		Typical Data					
		RESULTS MAY DIFFER BA TEMPERATURE, APPLICA					
		Shelf Life	2 years in origi	nal unopened c	ontainer.		
		Storage Conditions		• •	·	erial to 60°-75°F	(15°-25° C)
		Colore	0	rotect from freez	0		
		Colors Pot Life		olors. Custom c	0	otecting the systematic	om from mois
		FOLLING		contamination, o			en nom mois-
		VOCs	42 g/L.				
		Solids Content Smooth 550W	by weight 62%	by volume 55%			
		Sikagard [®] 552W	20%	17%			
		Tensile Properties (A Tensile Strength	STM D-412 modif		ys cure)		
		-		285 psi 610% at 73°	F (23°C)		
		Elongation at Break					
		Elongation at Break Tensile Strength at 0°I	F (-18°C)	1100 psi	. ,		
		-			· ·		
		Tensile Strength at 0°I Elongation at Break at Waiting Time (betwee Sikagard® 552W F Sikagard® 550W Rain resistant (at	t 0°F (-18°C) en coats) and Cur Primer+Sikagard [®] t 75% R.H.)	1100 psi 225% ring Rates 550W	45°F (8°C) 24 hours 12 hours 24 hours a times by 100	68°F (20°C) 12 hours 8 hours 4 hours %)	85°F (30°C) 6 hours 6 hours 2 hours
		Tensile Strength at 0°I Elongation at Break at Waiting Time (betwee Sikagard® 552W F Sikagard® 550W	t 0°F (-18°C) en coats) and Cun Primer+Sikagard® 5 75% R.H.) Id coatings will inco n (at 16 mils = 40 n coefficient) = 2,1	1100 psi 225% ring Rates 550W rease the waitin 00 microns dry 46	24 hours 12 hours 24 hours 100 g times by 100	12 hours 8 hours 4 hours %)	6 hours 6 hours
		Tensile Strength at 0°F Elongation at Break at Waiting Time (betwee Sikagard® 552W F Sikagard® 550W Rain resistant (at (Note: Over coating o Water Vapor Diffusio μ - value H ₂ O (diffusio SdH ₂ O (equivalent air Carbon dioxide diffu	t 0°F (-18°C) en coats) and Cur Primer+Sikagard® 5 75% R.H.) Id coatings will inco n (at 16 mils = 40 n coefficient) = 2,1 thickness) = 2.6 ft. sion (at 16 mils =	1100 psi 225% ing Rates 550W rease the waitin 00 microns dry 46 . (0.8 m) • 400 microns d	24 hours 12 hours 24 hours g times by 100 film thickness	12 hours 8 hours 4 hours %) s)	6 hours 6 hours
		Tensile Strength at 0°H Elongation at Break at Waiting Time (betwee Sikagard® 552W F Sikagard® 550W Rain resistant (at (Note: Over coating o Water Vapor Diffusio μ - value H ₂ O (diffusio SdH ₂ O (equivalent air	t 0°F (-18°C) en coats) and Cur Primer+Sikagard® 5 75% R.H.) Id coatings will inco n (at 16 mils = 40 n coefficient) = 2,1 thickness) = 2.6 ft. sion (at 16 mils = n coefficient) = ness) =	1100 psi 225% ing Rates 550W rease the waitin 00 microns dry 46 . (0.8 m) • 400 microns d	24 hours 12 hours 24 hours g times by 100 film thickness dry film thickn 000 hours 1 m)	12 hours 8 hours 4 hours %) s)	6 hours 6 hours



Construct

	Moisture Vapor Permeability (ASTM E-96)14.5 PermsResistance to Wind Driver Rain (TT-C-555B)No passage of water through the coatingFlame Spread and Smoke Development (ASTM E-84-94)E-84-94)Flame Spread: 5Smoke Development: 5 Class Rating: AWeathering (ASTM G-23)10,000 hoursExcellent, no chalking or cracking
Packaging	5 gal. Pails
How to Use Surface preparation	All surfaces to be coated must be dry, clean, sound, and frost free with curing compound residues and any other foreign matter removed. An open textured sandpaper like surface is ideal (CSP-3). Where necessary, surfaces should be prepared mechanically by blast cleaning or high speed pressure waterjetting. Allow adequate time for drying. Bug holes, cracks or irregularities of substrate should be filled and leveled with SikaTop [®] , SikaRepair [®] , SikaQuick [®] or acrylic surface fillers as appropriate. Cracks 1/32" or greater should be routed and sealed with a polyurethane sealant before coating. Priming : All porous areas or concrete with excessive porosity should be primed using Sikagard [®] 552W Primer or SikaLatex [®] R to allow easy application of Sikagard [®] 550 W CA Elastocolor.
Mixing	Stir the coating to ensure uniformity using a slow speed (400-600 rpm) drill and 1/2" jiffy style mixing paddle. To minimize color variation when using multiple units, blend two pails of Sikagard [®] 550 W CA Elastocolor. Use one pail and maintain the second pail to repeat this procedure (boxing) for the entire application.
Application	Any areas of glass or other surfaces should be masked. Recommended application temperatures (ambient and substrate) 45°-95°F (7°-35°C). Sikagard® 550 W CA Elastocolor can be applied by brush, roller, or spray over entire area moving in one direction. Allow a minimum of two hours prior to re-coating. At lower temperatures and high humidity, waiting time will be prolonged. At higher temperatures, work carefully to maintain a wet edge. As with all coatings, job site mock-ups should always be completed to confirm acceptability of workmanship, material and aesthetics. NOTE: To achieve a dry film thickness of 16 mils, two coats should be anticipated. For maximum adhesion, (especially on porous substrates) the use of Sikagard® 552W is recommended. Sikagard® 552W primer can be applied by brush or roller. Brushing provides more even and pore free coats and better penetration.
Limitations	 Not designed for use as a traffic bearing surface. Substrates must be dry prior to application. Minimum age of concrete prior to application is 14 days, depending on curing and drying conditions (moisture content must be below 5%). Minimum age of SikaTop®, SikaRepair®, or SikaQuick® prior to application is three days, depending on curing and drying conditions (moisture content must be below 5%). Allow sufficient time for substrate to dry after rain or other inclement conditions. Protect from freezing. If frozen, discard. Sikagard® 550 W CA Elastocolor should not be applied at relative humidity greater than 90%, or if rain is forecast within the specified rain resistance period. Maximum crack width 1/32". During application, regular monitoring of the wet film thickness and material consumption is advised to ensure that the correct layer thickness is achieved. When over-coating existing coatings, compatibility and adhesion testing is recommended. When over-coating Sikaflex® sealants, a prime coat of Sikagard® 550 W CA Elastocolor Accent Base Coat may be necessary over the sealant to minimize dirt pick up on cured coating. Do not store Sikagard® 550 W CA Elastocolor in direct sunlight for prolonged periods. Strong winds can cause shrinkage if material is applied at lower temperatures. Ensure that the primer is thoroughly dry before over-coating to prevent formation of bubbles and blisters, particularly in warmer weather. Not recommended for roofing.
KEEP C REN KEEP C For fur actual before Prior tr Data S ment a for eac produc SIKA v the cur Buyer EXPRE SHALL THE U SALE CALLI Visit C	OR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND ITRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA EET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE- RTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR- NT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE. CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY. Urther information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the al Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet re using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887. to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart- rat 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction ach Sika product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on urrent Product Data Sheet fused a sdirected within shelf life. User determines suitability of product for intended use and assumes all risks. r's sole remedy shall be limited to the purchase price or replacement of product table or cost of labor. NO OTHER WARRANTIES ESS OR IMPLIED SHALL APPLY INCLUDING ANY
Regio	Sika Corporation Sika Canada Inc. 201 Polito Avenue Sika Canada Inc. 401 Polito Avenue 601 Delmar Avenue Ponne: 800-933-7452 Pointe Claire Fax: 201-933-6225 Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792

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Sikagard[®] 552W Primer

Adhesion Promoter, Surface Conditioner for Concrete Surfaces

Description	Sikagard [®] 552W Primer is a one component, penetrating, adhesion promoter for priming concrete and other masonry surfaces prior to the application of acrylic emulsion coatings. Sikagard [®] Primers will reduce the consumption rate of the subsequent coat by providing a uniformly absorptive surface.
Where to Use	Primer coat for concrete and mineral substrates or those showing signs of higher than average porosity when over-coating existing coatings which are firmly bonded.
Advantages	 Resistant to water vapor diffusion. Environmentally friendly. Water-based. Excellent wetting properties. Reduces consumption of subsequent coat.
Coverage	Theoretical: 320 ft²/gal.
	All coverages dependent on porosity of substrate. Allowances must be made for surface profile, unavoidable variations in applied film thickness, loss and waste. In addition, two coats may be required on very absorbent surfaces.
Packaging	5 gal. re-closable metal pail.

Typical Data

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life	2 yea	rs in original, unopened	container.
Storage Conditions		dry at 40°-75°F (4°-24° 5°F (18°-24°C) before u	C). Condition material to sing.
Color	Milky-	white, opaque.	
Solids Content	20% k	oy volume.	
Application Temperatures	45°-9	0°F (7°-32°C)	
Waiting Times			
Uncoated masonry of conc 45°F (8° 68°F (20 86°F (30)	°C) 0°C)	Resistant to Rain 2 hr. 30 min. 15 min.	Prior to Over-coating 12 hr. 5 hr. 2.5 hr.
Previously Coated Substrat 45°F (8 68°F (20 86°F (30	°C) 0°C)	Resistant to Rain 4 hr. 4 hr. 30 min.	Prior to Over-coating 24 hr. 24 hr. 6 hr.

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How to Use	
Surface Preparation	All surfaces to be primed must be dry, clean, sound, and free of curing compound residues and other bond inhibiting material.
	Preparation Work : Concrete and masonry surfaces - blast clean, high pressure water blast or use other approved mechanical means to achieve an slightly open, roughened substrate.
Mixing	Stir thoroughly using a slow speed (400-600 rpm) drill and paddle prior to application.
Application	Any areas of glass should be protected by masking.
	Fill all visible hairline cracks and surface defects with appropriate Sika® repair mortar, leveling mortar or Sikagard® surface fill prior to applying primers. Sikagard® Primers can be applied by brush, roller or spray equipment. Brushing provides more even and pore free coats with better penetration. Allow a minimum of 4 hours prior to re-coating. At lower temperature, the waiting time will be prolonged.
Limitations	 When over-coating existing coatings, compatibility and adhesion testing is essential. Ensure primer is thoroughly dry before over-coating to prevent formation of bubbles and blisters, particularly in warmer weather. Ensure that the primer penetrates completely without forming a glaze on the surface. Extremely absorbent substrate may require more than one coat of primer. Sikagard[®] primers should not be stored in direct sunlight for prolonged periods of time.

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Construction



Product Data Sheet Edition 10.20.2014 Sika[®] Bonding Primer

Sika[®] Bonding Primer

Two-component, rapid curing, water-based epoxy primer

Description	Sika [®] Bonding Primer is a rapid curing, water based primer consisting of two components: a pre- reacted epoxy resin dispersed in water (Part A), and a waterborne modified polyamine solution (Part B). In its wet mixed state, it is milky green and slightly viscous.			
Where to Use	Suitable for use on most sound substrate surfaces where both a penetrative and surface-lying effect is required.			
Advantages	 Fast cure allows same-day membrane application in most conditions. Low odor, low VOC formulation. Compatible with most common substrate materials (not for metal surfaces). 			
Coverage	 350 ft²/gal on non-absorbent smooth substrates. 300 ft²/gal on prepared, dry concrete. 200 ft²/gal on absorbent gypsum and cementitious cover boards. Note: Rough, porous, or absorbent surfaces will require additional primer and will reduce yield. 			
Cure Mechanism	Chemical and evaporative cure.			
Chemical Resistance	Not intended for direct exposure.			
Packaging:	Bonding Primer Kit 1 Gallon 5 Gallons	Part A 0.8 US Gallons 4 US Gallons	Part B 0.2 US Gallons 1 Gallons	

Typical Data (Material and curing conditions @ 75°F (24°C) and 50% R.H.)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life	24 months in original, unopened and undamaged sealed containers.
Storage	Store dry at 35°-77°F (2°-25°C).
Product Conditioning	Condition material to 50°-77°F (10°-25°C) before using for ease of application.
Pot Life	12 hours
Total Volume Solids (ASTM D-2697)	15%
VOCs (ASTM D-2369-81)	12.5 g/l
Flash Point	110°F (59°C)
Service Temperature	-22° to 176°F (-30° to 80°C) intermittent.



How to Use	
Surface Preparation	All substrate surfaces shall be clean, dry and sound. Acceptable substrates include: sound concrete and masonry, wood and plywood, mineralized asphaltic cap sheet, sprayed polyurethane foam, gypsum and cementitious cover boards, and coated glass-faced polyisocyanurate foam boards. Reference separate System Data Sheet for specific surface preparation requirements.
Mixing	Mix ratio is 4:1 (A:B) by weight and volume. Add Part B into Part A and mix with stir stick or mechanical mixer (Jiffy) at low speed. Avoid adding air into the primer during mixing. When fully mixed, the primer should be free from streaks and of a uniform light green color. Do not break down kits into smaller quantities.
Application	Apply by brush or phenolic resin core roller at the recommended rate. Correct amount of primer will saturate the substrate and leave a slight film on the substrate top surface. Apply evenly without puddling.
Removal	Remove wet primer with clean water. Once cured, primer can only be removed by mechanical means.
Over Painting	Allow primer to cure completely prior to applying membrane resin. 1 hour at 95°F 2 hours at 68°F 4 hours at 41°F Ideally, membrane resin will be applied within 24 hours of primer application. This is required for applications in tropical/subtropical environments to avoid UV-related primer deterioration. Maximum primer exposure is 7 days. Primer exposed longer than 7 days, and primer exposed to water during curing and exhibiting a chalky appearance, must be reprimed. Deteriorated primer must be mechanically removed before primer reapplication.
	 To avoid dew point conditions during application, relative humidity must be no more than 95% and substrate temperature must be at least 5°F (3°C) above measured dew point temperatures. Minimum ambient and substrate temperature during application and curing of material is 41°F (5°C); maximum is 95°F (35°C). Surface temperatures must be no higher than 140°F (60°C). Do not apply on substrates with moisture content greater than 4% by weight, measured by Tramex[®] Concrete Moisture Encounter Meter. Minimum age of concrete must be 21-28 days depending on curing and drying conditions. Do not thin with solvents. Do not store materials outdoors exposed to sunlight and moisture for prolonged periods. Do not apply to substrate surfaces where moisture vapor transmission will occur during application and cure. This condition may be checked using ASTM D-4263 (Polyethylene Sheet method). Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Allow sufficient time for the substrate to dry after rain or inclement weather, as there is the potential for bonding problems. On substrates likely to exhibit outgassing apply during falling ambient and substrate temperature. If applied during rising temperature pinholing may occur. Precautions should be taken to prevent vapors and/or odors from entering the building/ structure, including but not limited to turning off and sealing air intake vents and through-wall air conditioners, and other means of vapor/odor ingress during application and cure. Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various product solutions). Surface irregularities may reflect through the cured system. When applying over existing coatings or membranes compatibility and adhesion testing, subsequent approval by Technical Services is required. On grade concrete decks should n
ka®	PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800-933-7452. NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTION FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

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RESPONSIBLE CARE



Sikagard[®] 570

Elastomeric, UV curable, high build, fully reinforceable, acrylic facade coating.

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Description	Sikagard 570 is an elastomeric, UV curing 570 provides protection to reinforced con It offers high resistance to chlorides and 570 will not act as a vapor barrier and wi exposure to UV radiation present in sunli harder than the bulk of the coating ben Similarly, as the coating does eventually	crete from the ingress of ca l other waterborne salts ar II enhance the appearance ght, which aids in the devel eath. This leads to a more begin to wear, the exposed	rbon dioxide an ad excellent UV of the structure opment of a sur durable surfac material will ma	d other aggressive gasses light resistance. Sikagard e. Sikagard 570 is cured b face skin which is relativel e and reduced dirt pickup intain its hardened surface
Where to Use	Protective, crack-bridging coating for concrete, mortar, stucco, masonry, and exterior finishing systems subject to cracking/dynamic movement. For use on building and civil engineering structures subject to cracking or a the top coat in complete repair and protection systems.			
Advantages	 UV curable top coat for a more durable Can bridge dynamically moving cract Excellent carbonation barrier Vapor permeable Provides resistance to weathering ar Crack bridging properties maintained Excellent long term UV light resistant Can be applied by brush, roller, or ai Good color stability Extremely resistant to dirt pick up an Nontoxic, nonflammable as a system 	ks nd frost I at low temperatures ce rless spray d mildew	ser dirt pickup.	
Packaging	 Easily maintained silk finish 5 gallon 			
		Theoretical yield per coat: 100 sq. ft./gal/coat. Recommended 'wet' film thickness: 16 mils/coat. Recomme 'dry' film thickness: 8 mils/coat. Normal coating system is two coats at a total dry film thickness of 16 Consumption is dependent on porosity of substrate. In addition, allowance must be made for surface p unavoidable variation in applied film thickness, loss and waste. Sikagard Elastic Base Coat can be used first coat in a two coat system of Sikagard 570.		
Coverage	'dry' film thickness: 8 mils/coat. Normal Consumption is dependent on porosity of unavoidable variation in applied film thick first coat in a two coat system of Sikagar	coating system is two coa f substrate. In addition, al kness, loss and waste. Sik d 570.	ats at a total dr lowance must b agard Elastic B	y film thickness of 16 mils be made for surface profile ase Coat can be used as a
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Coverage	'dry' film thickness: 8 mils/coat. Normal Consumption is dependent on porosity of unavoidable variation in applied film thic first coat in a two coat system of Sikagar Theoretical yield for reinforced system: 4 ness. A top coat at 80 sq.ft./gal to fully en allowance must be made for surface prof Typical Data RESULTS MAY DIFFER BASED UPON STATISTI TEMPERATURE, APPLICATION METHODS, TES Shelf Life Storage Conditions Colors Pot Life Solids Content Smooth 570 Sikagard® 552W Tensile Properties (ASTM D-412 modified after 3 Tensile Strength Elongation at Break Tensile Strength at 0°F (-18°C)	coating system is two coa f substrate. In addition, al kness, loss and waste. Sik d 570. D sq.ft./gal for the base coal ncapsulate the reinforceme file, unavoidable variation in CAL VARIATIONS DEPENDING UN T METHODS, ACTUAL SITE CON 2 years in original unopened cor Store dry at 40° - 95°F (4° - 35°C) using. Protect from freezing. If 469 standard colors. Custom co Indefinite, provided proper care freezing, contamination, or evap by weight 62% 20% 21 days cure) 250 psi 675% at 73°F (23°C) 1200 psi	ats at a total dr lowance must b agard Elastic B t with reinforcen int: 20 mils 'wet n applied film th PON MIXING METH DITIONS AND CURI Itainer Condition material to frozen discard. Ior-matching availablis taken in protecting oration. by volume	y film thickness of 16 mils be made for surface profile ase Coat can be used as a nent: 40 mils 'wet' film thick ' film thickness. In addition ickness, loss and waste. ODS AND EQUIPMENT, NG CONDITIONS.
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	*After 2,000 hours µ - value CO₂ (diffusion coefficient) = 214,000 R (equivalent air thickness) = 299 ft. (91 m) Sc (Equivalent concrete thickness) = 9 inches (23 cm) *accelerated weathering *accelerated weathering Crack-Bridging (at 16 mils = 400 microns DFT) Static (at -4°F/-20°C) Static (at -4°F/-20°C) 30 mils (0.75 mm) Dynamic>1000 cycles (at -4°F/-20°C) 12 mils (0.3 mm) Moisture Vapor Permeability (ASTM E-96) 14.5 Perms Resistance to Wind Driven Rain (TT-C-555B) No passage of water through the coating Flame Spread and Smoke Development (ASTM E-84-94) Flame Spread: 5 Smoke Development: 5 Class Rating: A Weathering (ASTM G-23) 10,000 hours Excellent, no chalking or cracking
Curing Mechanism	UV curing requires sunlight to harden the surface. This produces a tactile coating reflecting the composite nature of the coating film. In the complete absence of sunlight a softer surface will result although the product will dry cure.
How To Use Surface Preparation	Surface preparation: All surfaces to be coated must be dry, clean, sound, and frost free with curing compound residues and any other foreign matter removed. An open textured sandpaper like surface is ideal (CSP-3). Where necessary, surfaces should be prepared mechanically by blast cleaning or high speed pressure water jetting. Allow adequate time for drying. Bugholes, cracks or irregularities of substrate should be filled and leveled with SikaTop, SikaRepair, SikaQuick or acrylic surface fillers as appropriate
	Priming: All porous areas or concrete with excessive porosity should be primed using Sikagard 552W Primer or SikaLatex R to allow easy application of Sikagard 570.
	Crack Treatment: Treatment of existing cracks and reinforcement Sikagard 570 is designed to accommodate existing cracks and those starting from "zero" up to defined limits. The product will fill and bridge minor static cracks up to 0.04" if applied more thickly on those areas. Static cracks larger than 0.04" should be filled with acrylic filler prior to being coated with Sikagard 570. Dynamic cracks can also be addressed this way as well, but should be filled prior with a flexible sealant. It is advisable to also embed Sika Flexitape for dynamic cracks over 0.04", as well as with construction, control, and expansion joints. Multi cracked or crazed surfaces should be either repaired beforehand or the Sikagard 570 system should be completely reinforced with Sika's Reemat Standard Glass Fiber Matt.
Mixing	Stir the coating to ensure uniformity using a slow speed (400-600 rpm) drill and 1/2" jiffy style mixing paddle. To minimize color variation when using multiple units, blend two pails of Sikagard 570. Use one pail and maintain the second pail to repeat this procedure (boxing) for the entire application.
Application	Any areas of glass or other surfaces should be masked. Recommended application temperatures (ambient and substrate) 45 - 95 F (7-35 C). Sikagard 570 can be applied by brush, roller, or spray over entire area moving in one direction. Allow a minimum of two hours prior to recoating. At lower temperatures and high humidity, waiting time will be prolonged. At higher temperatures, work carefully to maintain a wet edge. As with all coatings, job site mock-ups should always be completed to confirm acceptability of workmanship, material and aesthetics. NOTE: To achieve a dry film thickness of 16 mils, two coats should be anticipated. For maximum adhesion,
	(especially on porous substrates) the use of Sikagard 552W is recommended. Sikagard 552W primer can be applied by brush or roller. Brushing provides more even and pore free coats and better penetration.
Limitations	 Not designed for use as a traffic bearing surface Substrates must be dry prior to application Minimum age of concrete prior to application is 14 days, depending on curing and drying conditions (moisture content must be below 5%) Minimum age of SikaTop, SikaRepair, or SikaQuick prior to application is three days, depending on curing and drying conditions (moisture content must be below 5%) Allow sufficient time for substrate to dry after rain or other inclement conditions Protect from freezing. If frozen, discard Sikagard 570 should not be applied at relative humidity greater than 90%, or if rain is forecast within the
7	 Skagard 570 should not be applied at relative numidity greater than 90%, or ir rain is forecast within the specified rain resistance period Maximum crack width 1/32" During application, regular monitoring of the wet film thickness and material consumption is advised to ensure that the correct layer thickness is achieved. When over-coating existing coatings, compatibility and adhesion testing is recommended When over-coating Sikaflex sealants, a prime coat of Sikagard 570 Accent Base Coat may be necessary over the sealant to minimize dirt pick up on cured coating. Do not store Sikagard 570 in direct sunlight for prolonged periods Strong winds can cause shrinkage if material is applied at lower temperatures Ensure that the primer is thoroughly dry before over-coating to prevent formation of bubbles and blisters, particularly in warmer weather Not recommended for roofing
	RIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND STRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA HEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE- RTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION D READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR- ENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

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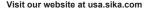
SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determinantiatching detects and before the clinical assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES, SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.

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Product Data Sheet Edition 11.20.2015 Sikagard[®] 62

Sikagard[®] 62

High-build, protective, solvent-free, colored epoxy coating

Description	High-build, protective, solvent-free, colored epoxy coating.			
Where to Use	Use as a high build, corrosion-resistant, protective coating, as a protective lining for secondary containment structures or as a seamless flooring system.			
Advantages	 Exceptional tensile strength. Good chemical resistance for long-term protection. Convenient A:B = 1:1 mixing ratio. Easy, paint-like viscosity. Available in 3 standard colors: gray, red, and tan. Excellent bonding to all common structural substrates. Super abrasion resistance for long-term wear. Sikagard® 62 gray in ANSI/NSF 61 potable water compliant Material is USDA certifiable. 			
Coverage	Approximately 150-250 ft. ² /gal. depending on condition of substrate.			
Packaging	4 gal. units; 1 qt. units, 12/case.			
	Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.)RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.Shelf Life2 years in original, unopened containers.Storage ConditionsStore dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F (18°-24°C) before using.ColorGray, red, tan.Mixing RatioComponent 'A': Component 'B'=1:1 by volume.Viscosity (Mixed)Approximately 3,500 cps.			
	Pot LifeApproximately 35 to 40 minutes. (60 gram mass).			
	Tack-Free Time Approximately 4 hours. Open Time Light feet treffin: 5.7 hours. Duth her wheel treffin: 9.40 hours.			
	Open Time Light foot traffic: 5-7 hours. Rubber-wheel traffic: 8-10 hours. Immersion and Chemical Exposure Minimum cure: 3 days			
	Tensile Properties (ASTM D-638)14 dayTensile Strength5,400 psi (37.3 MPa)Elongation at Break2.7 %			
	Abrasion (ASTM D-1044)(Taber Abrader)7 dayWeight loss, 1,000 cycles (H-22 wheel, 1,000 gm weight)0.61 gm			
	Abrasion Resistance (ASTM D-968) 14 day Abrasion Coefficient 51 liters/mil.			
	Adhesion (ASTM D-3359)1 dayAdhesion Classification4A			
	Water Absorption(ASTM D-570)7 day(24 hour immersion)0.1%			



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How to Use Surface Preparation	Surface must be clean and sound. It may be dry or damp, but free of standing water. Remove dust, laitance grease, curing compounds, impregnations, waxes and any other contaminants. Preparation Work: Concrete - Should be cleaned and prepared to achieve a laitance and contaminant free open textured surface by blastcleaning or equivalent mechanical means. Steel - Should be cleaned and prepared thoroughly by blastcleaning.
Mixing	Pre-mix each component. Proportion equal parts by volume of Components 'A' and 'B' into a clean mixin container. Mix with a low-speed (400-600 rpm) drill using a Sika paddle for 3 minutes, until uniform in color.
Application	Apply coating using high-quality roller, brush or spray. Two coats are recommended. Apply second coat a soon as the first coat is tack-free and the traffic of application will not damage the first coat. The second coat however, must be applied within 48 hours since a longer delay will require additional surface preparation. Do not spray with slip resistant granules mixed into the coating. For use as a seamless flooring system, consult Technical Service.
Limitations	 Minimum substrate and ambient temperature for application 50°F (10°C). Maximum moisture content of concrete substrate by weight when measured with a Tramex CME or CMExpert type concrete moisture meter is 4%. Do not apply over wet, glistening surface. Material is a vapor barrier after cure. Do not apply to porous surfaces exhibiting moisture-vapor transmission during the application. Consult Technical Service. Minimum age of concrete prior to application is 21-28 days, depending on curing and drying conditions. Do not apply to exterior, on-grade substrates. Use oven-dried aggregate only. Do not thin with solvents. Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure. On 'green or 'damp' concrete, EpoCem can be used as a pore filler to reduce vapor drive and potential osmotic blistering.

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SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on SIKA warraits this product for one year from date of instantion to be free from manufacturing defects and to neet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINCE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800. 1-800-933-SIKA NATIONWIDE

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Sikagard[®] 670W

Water dispersed, acrylic, protective, anti-carbonation coating

Description		ter dispersed colored, acrylic, er vapor permeable and provid		
Where to Use		oplication on buildings or civil rotect concrete and other mase		
Advantages	 Excellent resistance t Excellent UV resistant Excellent weathering Prevents ingress of cl Cost effective protect 	resistance. hlorides.		1.
Coverage	Normal coating system is is obviously dependent of in applied film thickness, I	00 ft²/gal. Wet film thickness: 5 two coats minimum at a total no n substrate. In addition, allowar oss and waste. A third coat may on dense substrates or with ver	ominal dry film thickne nce must be made for be necessary where o	ss of 5 mils. Consumpti surface profile, variatic opacity is reduced throu
Packaging	5 gallon, re-closable plas	stic pails.		
		erial and curing conditions a	t 73°F (23°C) and 50	0% R.H.)
	Typical Data (Mater RESULTS MAY DIFFER BASE	erial and curing conditions a D UPON STATISTICAL VARIATIONS DE DN METHODS, TEST METHODS, ACTUA 1 year in original, unopened conta Store dry at 40°-95°F (4°-35°C). C from freezing. If frozen, discard. 463 standard colors. Custom colo Indefinite, provided proper care is	PENDING UPON MIXING ME L SITE CONDITIONS AND CL iner. Condition material to 60°-79 r-matching available. taken in protecting the sy	THODS AND EQUIPMENT, URING CONDITIONS. 5°F before using. Protect
	Typical Data (Mate RESULTS MAY DIFFER BASE TEMPERATURE, APPLICATIO Shelf Life Storage Conditions Colors	erial and curing conditions a D UPON STATISTICAL VARIATIONS DE DN METHODS, TEST METHODS, ACTUA 1 year in original, unopened conta Store dry at 40°-95°F (4°-35°C). C from freezing. If frozen, discard. 463 standard colors. Custom colo	PENDING UPON MIXING ME L SITE CONDITIONS AND CL iner. Condition material to 60°-79 r-matching available. taken in protecting the sy	THODS AND EQUIPMENT, URING CONDITIONS. 5°F before using. Protect
	Typical Data (Mate RESULTS MAY DIFFER BASE TEMPERATURE, APPLICATIO Shelf Life Storage Conditions Colors Pot Life	erial and curing conditions a D UPON STATISTICAL VARIATIONS DE DN METHODS, TEST METHODS, ACTUA 1 year in original, unopened conta Store dry at 40°-95°F (4°-35°C). C from freezing. If frozen, discard. 463 standard colors. Custom colo Indefinite, provided proper care is freezing, contamination, or evapor by weight: 60%	PENDING UPON MIXING ME L SITE CONDITIONS AND CL iner. Condition material to 60°-7 r-matching available. taken in protecting the sy ration.	THODS AND EQUIPMENT, URING CONDITIONS. 5°F before using. Protect
	Typical Data (Mate RESULTS MAY DIFFER BASE TEMPERATURE, APPLICATION Shelf Life Storage Conditions Colors Pot Life Solids Content	erial and curing conditions a D UPON STATISTICAL VARIATIONS DE DN METHODS, TEST METHODS, ACTUA 1 year in original, unopened conta Store dry at 40°-95°F (4°-35°C). C from freezing. If frozen, discard. 463 standard colors. Custom colo Indefinite, provided proper care is freezing, contamination, or evapor by weight: 60%	PENDING UPON MIXING ME L SITE CONDITIONS AND CL iner. condition material to 60°-7: taken in protecting the sy ration. by volume: 46% Rain Resistant After approx. 5 hours approx. 1 hour	THODS AND EQUIPMENT, URING CONDITIONS. 5°F before using. Protect
	Typical Data (Mate RESULTS MAY DIFFER BASE TEMPERATURE, APPLICATION Shelf Life Storage Conditions Colors Pot Life Solids Content Waiting and Drying Time	erial and curing conditions a ED UPON STATISTICAL VARIATIONS DE DM METHODS, TEST METHODS, ACTUA 1 year in original, unopened conta Store dry at 40°-95°F (4°-35°C). C from freezing. If frozen, discard. 463 standard colors. Custom colo Indefinite, provided proper care is freezing, contamination, or evapor by weight: 60% S Between Coats: 45°F (7°C) approx. 90 min. 68°F (20°C) approx. 30 min.	PENDING UPON MIXING ME L SITE CONDITIONS AND CU iner. condition material to 60°-7: tr-matching available. taken in protecting the sy ration. by volume: 46% Rain Resistant After approx. 5 hours approx. 1 hour approx. 40 min. ckness) ficient) = 3,140	THODS AND EQUIPMENT, URING CONDITIONS. 5°F before using. Protect stem from moisture, Final Drying approx. 24 hours approx. 4 hours
	Typical Data (Mate RESULTS MAY DIFFER BASE TEMPERATURE, APPLICATION Shelf Life Storage Conditions Colors Pot Life Solids Content Waiting and Drying Time Water Vapor Diffusion (a	erial and curing conditions a D UPON STATISTICAL VARIATIONS DE DN METHODS, TEST METHODS, ACTUA 1 year in original, unopened conta Store dry at 40°-95°F (4°-35°C). C from freezing. If frozen, discard. 463 standard colors. Custom colo Indefinite, provided proper care is freezing, contamination, or evapor by weight: 60% s Between Coats: 45°F (7°C) approx. 90 min. 68°F (20°C) approx. 90 min. 85°F (30°C) approx. 20 min. t 5 mils. = 120 microns dry film thi µ - value H ₂ O (diffusion coef	PENDING UPON MIXING ME L SITE CONDITIONS AND CU iner. Condition material to 60°-7: taken in protecting the sy ration. by volume: 46% Rain Resistant After approx. 5 hours approx. 1 hour approx. 40 min. ckness) ficient) = 3,140 ess) = 1.3 ft. (0.4 m) thickness) icient) = 1,100,000 ess) = 433 ft. (132 m.)	THODS AND EQUIPMENT, URING CONDITIONS. 5°F before using. Protect stem from moisture, Final Drying approx. 24 hours approx. 4 hours approx. 3 hours
	Typical Data (Mate RESULTS MAY DIFFER BASE TEMPERATURE, APPLICATION Shelf Life Storage Conditions Colors Pot Life Solids Content Waiting and Drying Time Water Vapor Diffusion (a	erial and curing conditions at ED UPON STATISTICAL VARIATIONS DE DN METHODS, TEST METHODS, ACTUA 1 year in original, unopened conta Store dry at 40°-95°F (4°-35°C). C from freezing. If frozen, discard. 463 standard colors. Custom colo Indefinite, provided proper care is freezing, contamination, or evapor by weight: 60% s Between Coats: 45°F (7°C) approx. 90 min. 68°F (20°C) approx. 90 min. 68°F (20°C) approx. 90 min. 5°F (30°C) approx. 20 min. t 5 mils. = 120 microns dry film thi μ - value H ₂ O (diffusion coeff SdH ₂ O (equivalent air thickn equivalent concrete thickness	PENDING UPON MIXING ME L SITE CONDITIONS AND CU iner. Condition material to 60°-7: taken in protecting the sy ration. by volume: 46% Rain Resistant After approx. 5 hours approx. 1 hour approx. 40 min. ckness) ficient) = 3,140 ess) = 1.3 ft. (0.4 m) thickness) icient) = 1,100,000 ess) = 433 ft. (132 m.)	THODS AND EQUIPMENT, URING CONDITIONS. 5°F before using. Protect stem from moisture, Final Drying approx. 24 hours approx. 4 hours approx. 3 hours
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	Typical Data (Mate RESULTS MAY DIFFER BASE TEMPERATURE, APPLICATION Shelf Life Storage Conditions Colors Pot Life Solids Content Waiting and Drying Time Water Vapor Diffusion (and Carbon Dioxide Diffusion	erial and curing conditions at ED UPON STATISTICAL VARIATIONS DE DON METHODS, TEST METHODS, ACTUAL 1 year in original, unopened conta Store dry at 40°-95°F (4°-35°C). C from freezing. If frozen, discard. 463 standard colors. Custom colo Indefinite, provided proper care is freezing, contamination, or evapor by weight: 60% S Between Coats: 45°F (7°C) approx. 90 min. 68°F (20°C) approx. 90 min. 85°F (30°C) approx. 90 min. 85°F (30°C) approx. 20 min. t 5 mils. = 120 microns dry film thi μ - value H ₂ O (diffusion coeff SdH ₂ O (equivalent air thickn equivalent concrete thicknes ility (ASTM E-96)	PENDING UPON MIXING ME L SITE CONDITIONS AND CU iner. Condition material to 60°-7: taken in protecting the sy ration. by volume: 46% Rain Resistant After approx. 5 hours approx. 1 hour approx. 40 min. ckness) ficient) = 3,140 ess) = 1.3 ft. (0.4 m) thickness) icient) = 1,100,000 ess) = 433 ft. (132 m.) is (Sc) = approximately 133	THODS AND EQUIPMENT, URING CONDITIONS. 5°F before using. Protect 5°F before using. Protect stem from moisture, Final Drying approx. 24 hours approx. 4 hours approx. 3 hours 3 inches (33 cm.) 5 Class Rating: A



S U O

Surface preparation All surfaces to be coated must be clean, dry, laitance free, sound and frost-free with curing compour residues and any other contaminants removed. An open textured sandpaper-like surface is ideal (CSP-3) Where necessary, surfaces should be prepared mechanically by biast cleaning or high pressure wate jetting. Allow adequate time for drying, Bugholes, cracks or irregularities of substrate should be filled ar leveled with Sika Top [®] , Sika [®] MonoTop [®] leveling mortar or Sikagard [®] Surface Fillers as appropriate. Priming All porous areas or concrete with excessive porosity should be primed using Sikagard [®] 5521 Primer or SikaLatex [®] R to allow easy application of Sikagard [®] 670W. Mixing Stir thoroughly to ensure uniformity using a low speed (400-600 prm) drill and Sika paddle. To minimiz color variation when using multiple batches, blend two batches of Sikagard [®] 670W. Use one pail ar maintain the second pail to repeat this procedure (boxing) for the entire application. Application Any areas of glass or other surfaces should be masked. Recommended application temperatures, wo carefully to maintain a 'wef' edge. Sikagard [®] 670W is usally applied using a short nap lambs wo roller. Sikagard [®] 670W is usally applied using a short nap lambs wo roller. Sikagard [®] 670W is usally applied using a short nap lambs wo roller. Sikagard [®] 670W is problecation by spray using the most standard spra painting equipment. As with all coatings, job site mock-ups should always be completed to confin acceptability of workmanship and material. Note: To achieve a dry film thickness of 4-6 mils., two uniform coats should be anticipated. On porou substrates, at hird coat may be necessary and on particularly dense substrates, the first						
 Primer or SikaLatex® R to allow easy application of Sikagard® 670W. Mixing Stir thoroughly to ensure uniformity using a low speed (400-600 rpm) drill and Sika paddle. To minimiz color variation when using multiple batches, blend two batches of Sikagard® 670W. Use one pail ar maintain the second pail to repeat this procedure (boxing) for the entire application. Application Any areas of glass or other surfaces should be masked. Recommended application temperature (ambient and substrate) 45°-95° F (5°-35°C). Sikagard® 670W can be applied by brush, roller, or spraver entire area moving in one direction. Allow a minimum of 20-90 minutes prior to re-coating. J lower temperatures and high humidity, waiting time will be prolonged. At higher temperatures, wo carefully to maintain a 'wet' edge. Sikagard® 670W is usually applied using a short nap lambs wo roller. Sikagard® 670W is particularly suitable for application by spray using the most standard sprapainting equipment. As with all coatings, job site mock-ups should always be completed to confir acceptability of workmanship and material. Note: To achieve a dry film thickness of 4-6 mils., two uniform coats should be anticipated. On porou substrates, a third coat may be necessary and on particularly dense substrates, the first coat shou be thinned 10% by volume with water. A third coat may then be needed for opacity. Limitations Do not use over moving cracks. Substrate must be dry prior to the application. Minimum age of SikaTop® or Sika® MonoTop® thin layer renderings is 3 days prior to the application of 670W whould not be applied at relative humidities greater than 90%, or if rain is forecast within the specified rain resistance period. Allow sufficient time for the substrate to dry after rain or other inclement conditions. Product must be protected from freezing. If frozen, discard. Not designed for	How to Use Surface preparation	residues and any Where necessary jetting. Allow adeo	other contaminants remov , surfaces should be prep juate time for drying. Bug	ved. An open textured sand bared mechanically by blas holes, cracks or irregularitie	paper-like surface is in t cleaning or high pre es of substrate should	deal (CSP-3 essure wate be filled an
 color variation when using multiple batches, blend two batches of Sikagard® 670W. Use one pail an maintain the second pail to repeat this procedure (boxing) for the entire application. Application Any areas of glass or other surfaces should be masked. Recommended application temperature (ambient and substrate) 45°-95° F (5°-35°C). Sikagard® 670W can be applied by brush, roller, or spra over entire area moving in one direction. Allow a minimum of 20-90 minutes prior to re-coating. <i>J</i> lower temperatures and high humidity, waiting time will be prolonged. At higher temperatures, wo carefully to maintain a 'wet' edge. Sikagard® 670W is usually applied using a short nap lambs wo roller. Sikagard® 670W is particularly suitable for application by spray using the most standard spra painting equipment. As with all coatings, job site mock-ups should always be completed to confin acceptability of workmanship and material. Note: To achieve a dry film thickness of 4-6 mils., two uniform coats should be anticipated. On porou substrates, a third coat may be necessary and on particularly dense substrates, the first coat shoul be thinned 10% by volume with water. A third coat may then be needed for opacity. Limitations Do not use over moving cracks. Substrate must be dry prior to the application. Minimum age of concrete prior to the application. Minimum age of SikaTop® or Sika® MonoTop® thin layer renderings is 3 days prior to the application of 670W (moisture content must be below 5%). Sikagard® 670W should not be applied at relative humidities greater than 90%, or if rain is forecast within the specified rain resistance period. Allow sufficient time for the substrate to dry after rain or other inclement conditions. Product must be protected from freezing. If frozen, discard. Not designed for use as a vehicular traffic bearing surface. During appli					be primed using Sike	agard [®] 552\
 (ambient and substrate) 45°-95°F (5°-35°C). Sikagard® 670W can be applied by brush, roller, or spraver entire area moving in one direction. Allow a minimum of 20-90 minutes prior to re-coating. <i>J</i> lower temperatures and high humidity, waiting time will be prolonged. At higher temperatures, wou carefully to maintain a 'wet' edge. Sikagard® 670W is usually applied using a short nap lambs wo roller. Sikagard® 670W is particularly suitable for application by spray using the most standard sprapainting equipment. As with all coatings, job site mock-ups should always be completed to confin acceptability of workmanship and material. Note: To achieve a dry film thickness of 4-6 mils., two uniform coats should be anticipated. On porou substrates, a third coat may be necessary and on particularly dense substrates, the first coat shoul be thinned 10% by volume with water. A third coat may then be needed for opacity. Limitations Do not use over moving cracks. Substrate must be dry prior to the application. Minimum age of concrete prior to the application is 14 days, depending on curing and drying conditions (moisture content must be below 5%). Minimum age of SikaTop® or Sika® MonoTop® thin layer renderings is 3 days prior to the application of 670W (moisture content must be below 5%). Sikagard® 670W should not be applied at relative humidites greater than 90%, or if rain is forecast within the specified rain resistance period. Allow sufficient time for the substrate to dry after rain or other inclement conditions. Product must be protected from freezing. If frozen, discard. Not designed for use as a vehicular traffic bearing surface. During application, regular monitoring of wet film thickness and material consumption is advised to ensure that the correct layer thickness is achieved. When over-coating existing coatings, compatibility and adhesion testing is	Mixing	color variation wh	nen using multiple batche	es, blend two batches of S	ikagard® 670W. Use	
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 Substrate must be dry prior to the application. Minimum age of concrete prior to the application is 14 days, depending on curing and drying conditions (moisture content must be below 5%). Minimum age of SikaTop® or Sika® MonoTop® thin layer renderings is 3 days prior to the application of 670W (moisture content must be below 5%). Sikagard® 670W should not be applied at relative humidities greater than 90%, or if rain is forecast within the specified rain resistance period. Allow sufficient time for the substrate to dry after rain or other inclement conditions. Product must be protected from freezing. If frozen, discard. Not designed for use as a vehicular traffic bearing surface. During application, regular monitoring of wet film thickness and material consumption is advised to ensure that the correct layer thickness is achieved. When over-coating existing coatings, compatibility and adhesion testing is recommended. 		Note: To achieve substrates, a third	a dry film thickness of 4- d coat may be necessary	6 mils., two uniform coats / and on particularly dens	e substrates, the firs	
 Do not store Sikagard[®] 670W in direct sunlight for prolonged periods. 	_imitations	 Substrate mus Minimum age conditions (mo Minimum age tion of 670W (Sikagard® 670 cast within the Allow sufficien Product must Not designed During applicato ensure that When over-co 	st be dry prior to the appl of concrete prior to the a bisture content must be b of SikaTop® or Sika® Mon moisture content must be W should not be applied e specified rain resistance t time for the substrate to be protected from freezin for use as a vehicular tra- tition, regular monitoring the correct layer thickne ating existing coatings, co	application is 14 days, dep below 5%). noTop® thin layer rendering below 5%). at relative humidities great period. of dry after rain or other ind ng. If frozen, discard. ffic bearing surface. of wet film thickness and r ss is achieved. compatibility and adhesion	gs is 3 days prior to f ater than 90%, or if ra clement conditions. material consumptior testing is recommer	the applica- ain is fore- n is advised
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TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUP RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.	For fu	ther information and adv	ice regarding transportation, ha	ndling, storage and disposal of cl	hemical products, users sh	ould refer to th
RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE. KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONL For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheets	Prior t Data S ment a for eac	o each use of any Sika pro heet, product label and Sa t 800-933-7452. Nothing co ch Sika product as set fort	duct, the user must always read a Ifety Data Sheet which are availa ontained in any Sika materials rel	nd follow the warnings and instruction of the second structure of the second of the second of the second seco	ctions on the product's mos or by calling Sika's Technica read and follow the warning	al Service Depar
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RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE. KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONL For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Produc Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use. SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties of the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risk Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor. NO OTHER WARRANTLE EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIN SHALL NOT BE LABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN AMANNER TO INFRINGE ON ANY P	D Visit o	our website at usa.sika.c				/IDE
RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE. KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONL For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to th actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Produc Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depairent at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use. SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties of the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risk Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.NO OTHER WARRANTIE EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Sik SHALL NOT BE ELSPONSIBLE FOR The USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHER		ika Corporation D1 Polito Avenue yndhurst, NJ 07071 hone: 800-933-7452 ax: 201-933-6225	Sika Canada Inc. 601 Delmar Avenue Pointe Claire Quebec H9R 4A9 Phone: 514-697-2610	Sika Mexicana S.A. de C.V. Carretera Libre Celaya Km. Fracc. Industrial Balvanera Corregidora, Queretaro C.P. 76920		

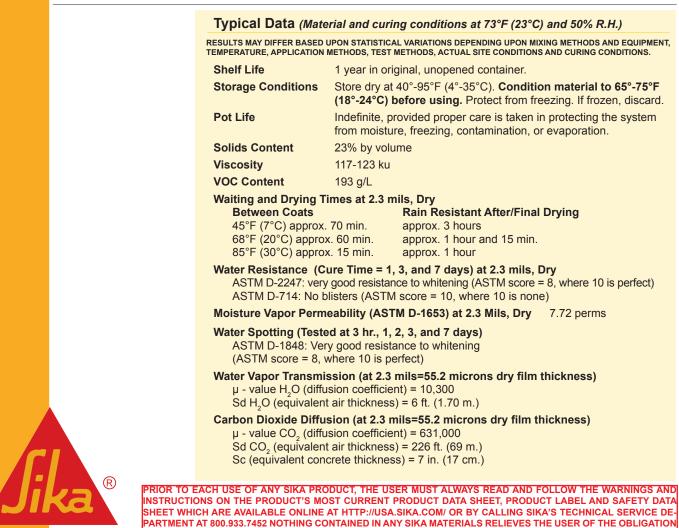
601 Delmar Avenue Pointe Claire Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792

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Phone: 52 442 2385800 Fax: 52 442 2250537

Sikagard[®] 670W Clear

Water-based, 100% acrylic, protective coating Description Sikagard 670W Clear is a clear, water-based acrylic protective coating. Sikagard 670W Clear prevents moisture ingress, is water vapor permeable, and provides an excellent carbonation barrier. Where to Use Protective coating for exposed aggregate surfaces, concrete, masonry and brick. Application on vertical, overhead and Horizontal (non-traffic bearing) surfaces. **Advantages** Provides resistance to weathering, frost and de-icing salts. Improves look of structure without changing appearance. Excellent adhesion. High UV light resistance. Excellent resistance to carbon dioxide and other aggressive gas diffusion. Water vapor permeable (breathable). Easy application by brush, roller or spray. Resistant to dirt pick-up. Prevents ingress of chlorides. Cost-effective protection. Coverage Theoretical per coat: 160 sq. ft./gal. Wet film thickness: 10 mils. Dry film thickness: 2.3 mils. All coverage is dependent on porosity of substrate. In addition, allowance must be made for surface profile. Unavoidable variation in application thickness, loss and waste. Normal coating system is one coat minimum at a total nominal dry film thickness of 2.3 mils. The total number of coats depends on the porosity of the substrate. On very porous substrates, two coats will typically be required. Packaging 5 gallon, re-closable plastic pails.



TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR

RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE

Surface Prepar	ation All surfaces to be coated must be dry, clean, sound and frost-free with curing compound residues and any other foreign matter removed. An open textured sandpaper-like surface is ideal (CSP 3 as per ICRI guidelines). Where necessary, surfaces should be prepared mechanically by blast clean- ing or high pressure waterjetting. Bugholes, cracks or irregularities of substrate should be filled and leveled with SikaTop, Sika MonoTop leveling mortar as appropriate.				
Mixing	Stir thoroughly to ensure uniformity using a low speed (400-600 rpm) drill and Sika paddle.				
Application	Any areas of glass or other surfaces should be masked. Recommended application temperatures (ambient and substrate) 45°-95°F (5°-35°C). Sikagard 670W Clear can be applied by brush, roller or spray over entire area moving in one direction. Sikagard 670W Clear is usually applied using a short nap roller. Allow a minimum of 60 minutes prior to re-coating. At lower temperatures and high humidity, waiting time will be prolonged. At higher temperatures, work carefully to maintain a 'wet' edge. As with all coatings, jobsite mock-ups should always be completed to confirm accept ability of workmanship, material and aesthetics.				
Limitations	 Not designed for use as a traffic-bearing surface. Substrate must be dry prior to the application. Allow sufficient time for the substrate to dry afte rain or other inclement conditions, as this could cause bonding problems. A white haze may develop if moisture is trapped behind the coating. Minimum age of normal concrete prior to the application is 14 days, depending on curing and drying conditions. Substrate must be strong enough to properly prepare by mechanical means achieving a sandpaper-like surface (CSP 3 as per ICRI guidelines). Sikagard 670W Clear should not be applied at relative humidities greater than 90%, or if rain is forecast within the specified rain resistance period. Do not thin. Do not apply if the ambient and substrate temperature are within 5°F (3°C) of the dew point to properture 				
	 temperature. Minimum age of SikaTop or Sika MonoTop thin layer renderings is 3 days prior to the application of Sikagard 670W Clear. Do not use over moving cracks. Product must be protected from freezing. If frozen, discard. During application, regular monitoring of wet film thickness and material consumption is advise to ensure that the correct layer thickness is achieved. When over-coating existing coatings, compatibility and adhesion testing is recommended. Do not store Sikagard 670W Clear in direct sunlight for prolonged periods. 				
Caution					
Warning	Avoid breathing vapors. Use only with adequate ventilation. May cause respiratory irritation and headaches.				
Irritant	Skin, eye, and respiratory irritant; avoid contact. Use of safety goggles and chemical resistant gloves is recommended. Remove contaminated clothing.				
First Aid	In case of eye contact, flush with water for 15 minutes, contact physician immediately. For skin contact, wash skin with soap water. For respiratory problems, remove person to fresh air. Wash clothing before re-use.				
Spill Clean Up	Confine spill, ventilate closed areas, and collect with absorbent material. Dispose of in accordance with current, applicable, local, state, and federal regulations. Uncured material can be removed water. Cured material can only be removed mechanically.				
	PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AN INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DAT SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE D PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CU RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.				
	KEEP CONTAINER TIGHTLY CLOSED • KEEP OUT OF REACH OF CHILDREN • NOT FOR INTERNAL CONSUMPTION • FOR INDUSTRIAL USE ONLY All information provided by Sika Corporation ("Sika") concerning Sika products, including but not limited to, any recommendations and advice relating to i application and use of Sika products, is given in good faith based on Sika's current experience and knowledge of its products when properly stored, hand and applied under normal conditions in accordance with Sika's instructions. In practice, the differences in materials, substrates, storage and handling cor tions, actual site conditions and other factors outside of Sika's control are such that Sika assumes no liability for the provision of such information, advi recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advi and purpose before proceeding with the full application of the product(s). Sika reserves the right to change the properties of its products without not All sales of Sika product(s) are subject to its current terms and conditions of sale which are available at <u>www.sikausa.com</u> or by calling 800-933-74.				
	Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Technica Data Sheet, product label and Material Safety Data Sheet which are available online at <u>www.sikausa.com</u> or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Technical Data Sheet, product label and Material Safety Data Sheet prior to product use				
	LIMITED WARRANTY: Sika warrants this product for one year from date of installation to be free from manufacturing defects and to meet technical properties on the current Technical Data Sheet if used as directed within shelf life. User determines suitability of product for intend use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of lat NOOTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FORAPARTICUL PURPOSE. SIKASHALL NOTBELLABLEUNDERANYLEGAL THEORY PORSPECIAL OR CONSEQUENTIAL DAMAGES. SIKASHALL NOTBELLASHALL APPLY INCLUDING ANY WARRANTY OF MERCHANGES. SIKASHALL NOTBELLABLEUNDERANYLEGAL THEORY PORSPECIAL OR CONSEQUENTIAL DAMAGES. SIKASHALL NOTBELLASHALL APPLY INCLUDING ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHER				
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ka	Sika Corporation Sika Corporation 201 Polito Avenue Sika Mexicana S.A. de C.V. Lyndhurst, NJ 07071 Pointe Claire Phone: 800-933-7452 Quebec H9R 4A9 Phone: 514-697-2610 C.P. 76920				

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Sikagard[®] Elastic Base Coat

Elastic, crack-bridging, anti-carbonation base coat for Sikagard[®] 550W Elastocolor

Description	Sikagard [®] Elastic Base Coat is an elastic, crack-bridging, anti-carbonation, base coat. Sikagard [®] Elastic Base Coat protects structures from the ingress of carbon dioxide and other aggressive atmospheric influences withou acting as a vapor barrier.		
Where To Use	As a base coat to build up the proper thickness for Sikagard® 550W Elastocolor.		
Advantages	 Provides resistance to weathering, frost and de-icing salts. Excellent carbonation barrier. Dynamic crack-bridging properties. Water vapor permeable. Can be applied by brush, roller, or airless spray. Will bridge dynamically moving cracks 300 microns (12 mils) at 400 microns (16 mils) dft (smooth). 		
Coverage	Theoretical per coat:		
	Smooth: Yield: 100 ft ² /gal. Wet film thickness: 16 mils. Dry film thickness: 8 mils.		
	Textured: Yield: 70 ft ² /gal. Wet film thickness: 23 mils. Dry film thickness: 11 mils. Sikagard [®] 550W Elastocolor coating system is two coats, base coat and top coat, minimum at a total dry film thickness of 16 mils. All coverage dependent on porosity of substrate. In addition, allowance must be made for surface profile, unavoidable variation in application thickness, loss and waste.		
Packaging	5 gal. re closable plastic pail.		
	Typical Data (Material and curing conditions at 73°F (23°C) and 50% R.H.)RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.Shelf Life2 years in original, unopened container.Storage ConditionsStore dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F (18°-24°C) before using. Protect from freezing. If frozen, discard.ColorOff WhitePot LifeIndefinite, provided proper care is taken in protecting the system from mois- ture, freezing, contamination, or evaporation.Curing RateInitial tack-free time: 2 hoursFinal cure: < 24 hoursSolids Content 		
	Textured64%49%Tensile Properties (ASTM D-412 modified)7 daysTensile Strength165 psi (1.1 MPa)Elongation at Break370%30 daysTensile Strength210 psi (1.4 MPa)Elongation at Break345%		
	Low Temperature Flexibility (ASTM C-711) 0°F 1/2" Mandrel, 180° Bend - No Change		
	Moisture Vapor Permeability (ASTM E-96) 10 Perms		
	Flame spread and smoke development (ASTM E-84-94)		

TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-

RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

All surfaces to be coated must be dry, clean, sound, and frost-free with curing compound residues and any other foreign matter removed. An open textured sandpaper-like surface is ideal (CSP-3). Where necessary, surfaces should be prepared mechanically by blast cleaning or high pressure water jetting. Allow adequate time for drying. Bug holes or irregularities of substrate should be leveled with SikaTop [®] , Sika [®] MonoTop [®] leveling mortar or surface fillers as appropriate.
Priming: All porous areas or concrete with excessive porosity or chalky surfaces should be primed using Sikagard [®] 552W or SikaLatex [®] R to allow easy application of Sikagard [®] Elastic Base Coat.
Stir all materials to ensure uniformity using a low speed (400-600 rpm) drill and Sika paddle.
Any areas of glass or other surfaces should be masked. Recommended application temperatures (ambient and substrate) 45°-100°F (7°-37°C). Apply by brush, roller, or spray over entire area moving in one direction. To obtain the proper coverage, a minimum of two coats are necessary. Allow a minimum of 2 hours prior to re-coating. Fill all visible hairline cracks and surface defects with appropriate Sika repair mortar, leveling mortar or sealer prior to applying Sikagard [®] Elastic Base Coat to entire surface. Consult Technical Service for spray application techniques.
Note: Brushing provides more even and pore free coats with better penetration. Allow a minimum of 3 hours prior to re-coating. At lower temperatures and high humidity, the waiting time will be prolonged. As with all coatings, job site mock-ups should always be completed to confirm acceptability of workmanship and material.
 Not designed for use as a traffic bearing surface. Substrate must be dry prior to the application. Allow sufficient time for the substrate to dry after rain or other inclement conditions, as this could cause bonding problems. Minimum age of normal concrete prior to the application is 14 days, depending on curing and drying conditions (moisture content must be below 5%). Minimum age of SikaTop® or Sika® MonoTop® prior to application is 3 days, depending on curing and drying conditions (moisture content must be below 5%). Do not thin. Crack bridging is dependent on dry film thickness. If liquid material is frozen it should not be used. During application, regular monitoring of wet film thickness and material consumption is advised to ensure that the correct layer thickness is achieved. Crack bridging abilities are reduced with textured grade. Crack bridging properties require that the minimum dry film thickness be maintained. In no circumstances should this be less than 200 microns (8 mils) total. Not for use as an aesthetic coating. Available in pastel base only.

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Sikagard® FlexCoat - Cementitious Protective Coating

Two-component, polymer-modified, waterproof, cement-based coating system

Description	Sikagard [®] FlexCoat is a polymerized cementitious prof liquid (Part A) mixed at the time of application with a		
Where to Use	 Balcony deck surfacing. Concrete exterior restoration. Sidewalk resurfacing. Wall refinishing and installation coating. Stadium renovation. Swimming pool walkways. 		
Advantages	It can be applied over almost any clean, sound surfa different floor, wall and roof uses. Important characte sion coupled with its ability to withstand prolonged pe material is far superior to conventional cementitious c ing which substantially reduces or prevents water per It is a "breathable" coating which releases normal em FlexCoat is available in natural cement color. Sikalastic [®] Traffic Systems can be top coated with Sik	ristics of Sik destrian and oatings. Sik netration, fre trapped vap	kagard [®] FlexCoat are its extraordinary adhe- d light vehicular traffic. In these respects, the agard [®] FlexCoat provides a waterproof coat- beze-thaw scaling and concrete carbonation for without loosening or blistering. Sikagard [®]
	the spec component of the Sikalastic [®] /Sikagard [®] Flex		
Packaging	55 lb. bag. and 2.5 gallon liquid (packaged in 3.5 gall	on pail) = 1	unit.
Coverage	Sikagard [®] FlexCoat is applied in two coats. Each coa thickness is required. On-site results for coverage wil		applied at 250 ft. ² /unit. A total of 60 mils tota
	Typical Data (Material and curing conditions RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATION TEMPERATURE, APPLICATION METHODS, TEST METHODS, A	NS DEPENDIN	G UPON MIXING METHODS AND EQUIPMENT,
	Shelf Life 1 year in original, unopene	d packagin	g
	Storage Conditions Store dry at 40°-95°F(4°-3	5°C). Condi	ition material to 65°-75°F before using.
	Adhesion (ASTM C-882), Type I	515 psi	
	Absorption Weight gain by 4" coated concrete cube after 21 days water immersion	<2%	
	Weathering (ASTM G23) Weatherometer) Method 1 procedure, 60 cycles	No visible o	degradation
	Hydrocarbon Substances Resistance (ASTM D-1 21 days repeated reapplication of gasoline, motor oil SAE-10, jet fuel	308, Spot O No softenin	
	Resistance to Wind-Driven Rain Fed Spec. TT-C-558 (8 hrs.) & TT-P-0035 (24 hrs At 5" water pressure and 60 gal./hr. water flow		r dampness noted on back of test panels
	Compressive Strength (ASTM C-109)	2,440 psi	
	Tensile Strength (ASTM C-190)	430 psi	
	Elongation (ASTM D-412)	12%	
	Shore Hardness (ASTM D-2240)	Durometer	"A" - 82
	Impact Resistance (MIL-D-3134, Para. 4.7.3.) Water Vapor Permeability (E-96)		g or detachment (2 lb. steel ball dropped eight on to coated steel plate)
	Flammable Properties (ASTM E-84 Steiner Tunn		Flame Spread - 4
			Smoke Density - 0
	Fire Resistance (UL790)		Complies as Class A



How to Use	
Surface Preparation	Prepare surfaces by removal of dirt, foreign matter plus patching in accordance with manufacturer's recon mendations. An open textured surface ICRI CSP.3 is recommended. Deeper areas shall be patched with a propriate patch material like SikaQuick [®] or SikaRepair [®] products. The material is applied in multiple coats b brush, roller, trowel or spray to a typical thickness of 60 mils.
Mixing	Place the liquid component in appropriate mixing container. It is always recommended to start mixing with approximately 80% of the liquid. Add the powder while continuing to mix. Mix to a uniform consistency, maximum 3 minutes. Mechanically mix with a low-speed drill (400-600 rpm) and paddle.
Application	Pre-wet surface to SSD (Saturate Surface Dry). Insure good intimate contact with the substrate is achieved Sikagard® FlexCoat can be applied with brush, roller, trowel or spray application. Apply first coat of Sikagard® FlexCoat. Apply following coats (one or two depending on service conditionarequirements) by brush, trowel roller or spray. Finish to specified texture. Color Finish (optional) – apply Sikagard® FlexCoat ATC acrylic top coat for color finish, when specified, in two coats by roller, brush or spray. Caution: Do not install Sikagard® FlexCoat in cold weather (i.e. below 50°F/10°C) or when rainfall can be expected prior to material setting.
Tooling & Finishing	Curing Protect newly applied Sikagard® FlexCoat from direct sunlight, wind, rain and freezing.
Limitations	 Apply product in temperatures > 50°F (7°C) and rising. Minor shade variation may occur with natural cement color material. Not suitable for use in areas where acids or other aggressive chemicals are spilled. Top coats strongly recommended for color uniformity. Will reflect dynamic concrete cracks. Static and dynamic cracks can be detailed in accordance with accepted industry practices of using embedding mesh or other methods to reduce the reflecting of cracks. Sikagard® FlexCoat is a dense, cement-based waterproofing material that is vapor permeable. This product will not create a vapor barrier. Efflorescence in the existing substrate can result in the failure of the bond or discoloration of the surface if there are areas of concrete that are not protected from water ingress. Sikagard® FlexCoat has been tested with Sikagard® FlexcoatATC. Use of any other top coat needs to be tested for compatibility and performance. As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur® 32 Hi-Mod.
INS SHE PAR TO I REM	OR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AN TRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DAT ET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DI TTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATIO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CU TRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.
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Prior Data S	to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Produ Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depar at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction

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Sikagard[®] FlexCoat ATC (Acrylic Top Coat)

Single-component, water-based, acrylic top coat for Sikagard® FlexCoat

Description		le component acrylic finish coating for two-coat application to Sikagard [®] Flortant characteristics of Top Coat are its durability and excellent weathering
Where to Use	•	sed as a top coat where uniformity is desired or colors other than Concrete Coat is an acrylic coating that will require maintenance and recoat applica- osure to foot traffic.
Advantages	 Tough, long-lasting finish. Weather-resistant. Excellent color retention. VOC compliant. No mess - self-mixing. Offers resistance to dirt pickup Cost effective protection. Vapor permeable - allows each 	and mildew. n way water vapor diffusion (breathable)
Packaging	5 gallon pail.	
Coverage	ing system is two coats minimum	I/coat. Wet film thickness: 5 mils. Dry film thickness: 2.5 mils. Normal coat- at a total nominal dry film thickness of 5 mils. Consumption is obviously on, allowance must be made for surface profile, variations in applied film
	TEMPERATURE, APPLICATION METHOR Shelf Life Storage Conditions Colors Vehicle Type Gloss 60 Gloss Meter Gloss 60 Gloss Meter Cleaning Solvent Physical Properties Flexibility Weather Abrasion Curing Time (77°F) Dry to touch Recoat Traffic Color Retention	
	5	No fading or visible deleterious effect under 10x magnification. Desert Sunshine Exposure Test, Inc., Phoenix, AZ "Procedure EMMA" (mirror-accelerated exposure).



Chemical	Resistance
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Environment	Immersion	Splash & Spillage	Exterior Weathering
Weak Acid	NR	LR	R
Alkali	LR	R	R
Solvent	NR	NR	NR
Salts	R	R	R
Water	R	R	R
R - Recommended NR - Not recommended			

LR - Limited recommendation

How to Use Surface Preparation All surfaces to be coated must be clean, dry, laitance free, sound and frost-free with all residues and any other contaminants removed. An open textured sandpaper-like surface is ideal. Where necessary, surfaces should be prepared mechanically by blast cleaning or high pressure water blasting. Allow adequate time for drying. Stir thoroughly to ensure uniformity using a low speed (400-600) rpm drill and Sika Paddle. To minimize color Mixing onstructio Applicat Over pa Limitatio

variations when using multiple batches, blend tow batches of Sikagard [®] FlexCoat ATC. Use one pail and maintain the second pail to repeat this procedure (boxing) for the entire application.
Any areas of glass or other surfaces should be masked. Recommended application temperatures (ambient and substrate) 45°-95°F (5°-35°C). Sikagard® FlexCoat ATC can be applied by brush, roller, or spray over entire area moving in one direction. Allow a minimum of 20-90 minutes prior to recoating. At lower temperatures and high humidity, waiting time will be prolonged. At higher temperatures, work carefully to maintain a 'wet' edge. Sikagard® FlexCoat ATC is usually applied using a short nap lamb's wool roller. Sikagard® Flex- Coat ATC is particularly suitable for application by spray using the most standard spray painting equipment.
As with all coatings, job site mock-ups should always be completed to confirm acceptability of workmanship and material. Apply first coat of Sikagard [®] FlexCoat ATC. Apply following coats (one or two depending on service conditions/requirements) by roller, brush or spray. Finish to specified texture.
Caution: Do not install Sikagard [®] FlexCoat in cold weather (i.e. below 50°F/10°C) or when rainfall can be expected prior to material setting.
Typically in normal 73°F and 50% relative humidity conditions, Sikagard® FlexCoat can be top coated with Sikagard® FlexCoat ATC after 24 hours.
 Substrate must be dry prior to the application. Sikagard[®] FlexCoat ATC should not be applied at relative humidities greater than 90%, or if rain is forecast within the specified rain resistance period. Allow sufficient time for the substrate to dry after rain or other inclement conditions. Product must be protected from freezing. If frozen, discard. Not designed for use as a vehicular traffic bearing surface. During application, regular monitoring of wet film thickness and material consumption is advised to insure that the correct layer thickness is achieved. Developed and tested as the topcoat for Sikagard[®] FlexCoat product. Use of this material in any other applications will require testing. Do not store Sikagard[®] FlexCoat ATC in direct sunlight for prolonged periods.
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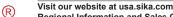
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Product Data Sheet Edition 10.6.2014 SikaTop[®] 144

SikaTop[®] 144

Polymer-modified portland-cement coating

Description		arata marta
	SikaTop [®] 144 is a polymer-modified, 2-component, cementitious coating. Designed for use on con and masonry substrates. Easily applied by brush, roller, or spray equipment. This fine-texture resistant coating is used for protection against deicing salts and for damp-proofing/waterproofin	ed, abrasion
Where To Use	 Use on grade, above, and below grade on concrete, masonry, and mortar. Use on horizontal, vertical, and overhead surfaces, both interior and exterior. Potable water tanks. Use as a coating over newly repaired concrete to provide a monolithic/uniform appearance. Use as a protective coating to reduce the affect of deicing salt on concrete. Use as a protective coating for waterproofing, damp-proofing, and improved resistance to we Use on concrete and masonry substrates to improve abrasion resistance to foot traffic and light p traffic. Use to coat the backside of architectural curtain wall panels to prevent water intrusion from the same set of the same set	oneumatic-tire
Advantages	 Bond strength ensures superior adhesion. Increases resistance of substrate to deicing salts. Does not create a vapor barrier. No mix water needed, liquid co-polymer triggers special blend of cements, fillers, and admix Superior abrasion resistance. No batching, factory proportioned unit ensures consistent composition and high quality. Non-low odor. Easily applied to clean, sound substrates. Approved for use in contact with potable water. USDA-approved for incidental food contact. May be overcoated with Sikagard[®] protective coatings. 	
Coverage	First Coat 100-150 ft./gal.	
eerenage	Second Coat 150-200 ft./gal.	
	Coverage is dependent upon substrate texture and porosity.	
Packaging	Coverage is dependent upon substrate texture and porosity. 5-gal. unit consisting of 3.5-gal. plastic pail of Component 'A' and a 45-lb. multi-wall bag of Com	ponent 'B'.
Packaging		
Packaging	5-gal. unit consisting of 3.5-gal. plastic pail of Component 'A' and a 45-lb. multi-wall bag of Com Typical Data (<i>Material and curing conditions</i> @ 73°F and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND	
Packaging	5-gal. unit consisting of 3.5-gal. plastic pail of Component 'A' and a 45-lb. multi-wall bag of Com Typical Data (Material and curing conditions @ 73°F and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AN TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CO	ND EQUIPMENT NDITIONS.
Packaging	5-gal. unit consisting of 3.5-gal. plastic pail of Component 'A' and a 45-lb. multi-wall bag of Com Typical Data (<i>Material and curing conditions</i> @ 73°F and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AN TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CO Shelf Life 1 year in original, unopened packaging. Storage Conditions Store dry at 40°-95°F (4°-35°C). Condition material to 60° before using. Component 'A' must be protected from freeze	ND EQUIPMENT NDITIONS.
Packaging	5-gal. unit consisting of 3.5-gal. plastic pail of Component 'A' and a 45-lb. multi-wall bag of Com Typical Data (Material and curing conditions @ 73°F and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AN TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CO Shelf Life 1 year in original, unopened packaging. Storage Conditions Store dry at 40°-95°F (4°-35°C). Condition material to 60° before using. Component 'A' must be protected from freez frozen, discard.	ND EQUIPMENT NDITIONS.
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Packaging	5-gal. unit consisting of 3.5-gal. plastic pail of Component 'A' and a 45-lb. multi-wall bag of Com Typical Data (Material and curing conditions @ 73°F and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CO Shelf Life 1 year in original, unopened packaging. Storage Conditions Store dry at 40°-95°F (4°-35°C). Condition material to 60° before using. Component 'A' must be protected from free: frozen, discard. Color White and cement-gray. Mixing Ratio Factory proportioned unit. Mix entire contents.	ND EQUIPMENT NDITIONS.
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How to Use	
Substrate	Concrete, mortar, and masonry.
Surface Preparation	All surfaces to be coated must be clean, sound, and saturated surface dry with no standing water at the time of application.
	Remove all dust, laitance, grease, oils, curing compounds, waxes, impregnations, and other contaminants. Should substrate require repair, patch with appropriate SikaTop [®] PLUS repair system. Preparation work must be done by mechanical equipment, i.e., blast cleaning, water blasting, or a combination of the two.
Mixing	All mixing must be done mechanically using a low-speed drill (400-600 rpm) and Sika paddle. Place approxi- mately 1/2 Component 'A' into a clean mixing container. While mixing, slowly add all of Component 'B' and continue to mix until you achieve a uniform paste with no lumps. Be sure to scrape down sides of the mixing container at this time. Add remainder of Component 'A' and continue to mix until uniformly blended.
Application	SikaTop® 144 should only be applied over properly prepared surfaces with high-quality brushes, rollers, or "hopper-type" spray equipment. Surface should be saturated surface dry prior to application. Two coats are recommended for maximum performance. Recommended thickness per coat is 8 to 16 mils. Apply thoroughly mixed coating generously with loaded brush or roller. Always finish off with light strokes blending back into coated area for uniform appearance. For application in direct sun or on a hot substrate, pre-wet surface and allow surface water to dissipate before coating.
Tooling & Finishing	Curing: Protect newly applied SikaTop® 144 from direct sunlight, wind, rain and freezing.
	 Maximum thickness of applications is 16 mils/coat, thicker application can result in cracking. Do not apply when rain is expected. Minimum ambient and substrate temperature is 45°F and rising at the time of application. For spray application, coating must be screened prior to loading of the spray hopper. Coating may chalk and show water marks due to weathering. For applications where coating will be subjected to immersion, a 3-day cure is recommended. Coating will slightly yellow with age and exposure to UV light. As with all cement based materials, avoid contact with aluminum to prevent adverse chemical reaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with

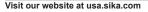
RIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE-PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY.

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart-ment at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on CALLING 201-933-8800. 1-800-933-SIKA NATIONWIDE



Regional Information and Sales Centers. For the location of your nearest Sika sales office, contact your regional center. Sika Corporation 201 Polito Avenue Lyndhurst, NJ 07071 Phone: 800-933-7452 Fax: 201-933-6225

Sika Canada Inc. 601 Delmar Avenue Pointe Claire Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792

Sika Mexicana S.A. de C.V. Carretera Libre Celaya Km. 8.5 Fracc. Industrial Balvanera Corregidora, Queretaro C.P. 76920 Phone: 52 442 2385800 Fax: 52 442 2250537





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Printed in Canada. A510

B - Joint Sealing and Adhesive Systems

Building Sealants Polyurethanes

Folyulethalles	
Sikaflex-15 LM	B10
Sikaflex-1a	B20
Sikaflex-1a+	B30
Sikaflex-1c SL	B40
Sikaflex-2c NS	B50
Sikaflex-2c NS EZ Mix	B60
Sikaflex-2c NS TG	B70
Sikaflex-2c SL	B80
Sikaflex Textured Sealant	B90
Silicones	
Sikasil WS-290	B100
Sikasil WS-290 FPS	B110
Sikasil WS-295	B120
Sikasil WS-295 FPS	B130
Sika Silbridge-300	B140
Sikasil GP	B150
Sikasil N Plus	B160
Hybrid	
SikaHyflex 150 LM	B170

Control Joint Systems

Sikaflex-1c SL	B40
Sika Loadflex 524 EZ	B180
Sikadur 51 NS	B190
Sikadur 51 SL	B200

Runway / Roadway / DOT Sealants

Sikaflex-1c SL	B40
Sikaflex-2c NS	B50
Sikaflex-2c NS EZ Mix	B60
Sikaflex-2c NS TG	B70
Sikaflex-2c SL	B80
Sikasil-728 NS	B210
Sikasil-728 RCS	B220
Sikasil-728 SL	B230

High Performance Joint System

Sikadur 31 Hi-Mod Gel (1:1 Mix Ratio) B240 Sikadur Combiflex SG System B250

Pick-Proof and Tamper-Resistant Sealants

Sikadur 23 Lo-Mod GelB260Sikadur 31 Hi-Mod Gel (1:1 Mix Ratio)B240Sikadur 51 NSB190Sikadur 51 SLB200

Multi-Purpose Adhesive Sealants

Sikaflex-11 FCB270SikaBond Construction AdhesiveB280

Sealant Primers

Sikaflex Primer 260, 429, and 449B290Sikasil Primer-2100B300

Foam Sealants

Sika Boom	B310
Sika Boom	B310

Chemical Resistant Sealants

Sika Duoflex NS	B320
Sika Duoflex SL	B330
Sika Duoflex Primer 5050	B340

Waterstop Systems

SikaSwell S-2	B350
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Product Data Sheet Edition 5.13.2016 Sikaflex-15 LM

Sikaflex[®]-15 LM

SEALANT: WATERPROOFING & RESTORATION INSTITUTE ssued to: Sika Corporation Product: Sikaflex® 15LM C719: Pass 🖌 Ext:+100% Comp:-50% Substrate: Mortar, Aluminum, Glass [motar substrate primed with Sika Primer 429] Validation Date: 2/27/14 - 2/26/19

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No. 214-SIK817 High-performance, low-modulus elastomeric sealant SEALANT VALIDATION

Description	meric sealant. Meets	Federal Specifica se T, NT, G, A, O,	ation TT-S-002 M; Federal Sp	230C, Type II, Class A; becification for silicones	hane-based, non-sag elasto- ASTM C-920, Type S, Grade - TT-S-001543 A, Type non-sag.
Where to use	Excellent for mov	ing joints in vertic	al applications	i.	
	Suitable for use b	•••			
	 Typical application 	ns include joints ir	n concrete par	nel and wall systems, ar	ound window and door frames,
	reglets, flashing,	common roofing of	detail applicati	ons, etc.	
	Exceptional seala	nt choice for high	-rise and faca	de applications where h	igh movement capability is
	required.				
	 An effective seala 	int for use in Exte	rior Insulation	Finish Systems (EIFS).	
Advantages	Low modulus of e	lasticity.			
	Easy and ready to				
	 Eliminates time, e 	effort, waste, and e	equipment cle	an-up.	
	Cures to a durabl				
	Exceptional cut a				
	Stress relaxation				
	Excellent adhesic				
	Bonds to most co				
	Paintable with wa	,		IS.	
	Excellent resistant	ice to aging, weat	nering.		
	 Jet fuel resistant. 	Barriel and a second dis			
	 Proven in tough c Non loophing 	limates around th	e world.		
	 Non-leaching. 	/ / E00/ isint may			
	 Capable of +100% Two-hour UL fire 				
		0			
Chemical Resistance	Good resistance to v	vater, diluted acids	s, and diluted	alkalines. Not normally	for fully immersed conditions
	Consult Technical Se	ervice for specific	data.		
Packaging	10.1 fl. oz. (300 ml.)	20 fl oz (591 ml) 4.5 gal (17	L) in a 5 gal pail 52 ga	l (197 L) in a 55 gal drum
laonaging	10.1 11.02. (000 1112),	20 11: 02: (00 1 111	_), 1.0 gui (11	2) in a o gai pail, oz ga	
	Typical Data (A	laterial and curin	ng conditions	@ 73°F (23°C) and 50	% R.H.)
	RESULTS MAY DIFFER	BASED UPON STATIS	TICAL VARIATIO		G METHÓDS AND EQUIPMENT,
	Shelf Life	10.1 fl. oz. cart	tridaes	12 months	
		20 fl. oz. uni-pa		12 months	
		5 gal. pails		6 months	
	Starage Canditions	55 gal. drums		6 months	_
	Storage Conditions			Cray Limostope Black Dark	
	Colors	Capitol Tan, Of	ff-White, Beige, Alr	Gray, Limestone, Black, Dark B nond, Coping Stone, Aluminum Special colors on request (min.	Stone, Medium Bronze, Redwood
	Application Temperature	e 40° to		ould be installed when joint is a	
	Service Range	-40° to 170°F (-40° to	•		
	Curing Rate	Tack-free time	2 to 6 ho	ours (TT-S-00230C)	
		Tack-free to touch	3 hours		
		Final cure	7 to 10 d	lays	
	Recovery >80				
	Shore A Hardness (AST		21 day	25 ± 5	
	Tensile Properties (AST 21 day Tens	M D-412) sile Stress	124	5 psi (.86 MPa)	
	•	igation at Break	700		
		ss at 100%	50	psi (.34 MPa)	
	Adhesion in Peel (TT-S- Substrate	00230C) Peel Strength	Adhesion Lo	22	
	Aluminum	25 lb.	0%		
	Glass	25 lb.	0%		
	Concrete	30 lb.	0%		
	Weathering Resistance	Excellent			
	Chemical Resistance				ot normally for fully immersed condi-
		uons. Consult	Technical Service f	or specific data.	



	10.1	l oz Cartri	dge: Yield	in Linear	feet	ļĿ	20 o	oz Sausag	e: Yield ir	n Linear fe	et	1ga	llon: Yiel	d in Linea	r feet	
		Depth	1/4"	3/8"	1/2"	ļĹ	D)epth	1/4"	3/8"	1/2"		Depth	1/4"	3/8"	1/2"
		1/4"	24.3			ΙΓ	٦	1/4"	48.1				1/4"	307.9		
		3/8"	16.2	10.8		1		3/8"	32.1	21.4			3/8"	205.3	136.8	
		1/2"	12.1	8.1	6.1	1		1/2"	24.1	16.0	12.0		1/2"	153.9	102.6	77.0
	Width	3/4"	8.1	5.4	4.0	1	Width	3/4"	16.0	10.7	8.0	Width	3/4"	102.6	68.4	51.3
	>	1"			3.0	1	≥	1"			6.0	Š	1"	102.0	00.1	38.5
		1.25"			2.4	4		1.25"			4.8					
		1.25				{							1.25"			30.8
low to Use		1.5"			2.0			1.5"			4.0		1.5"			25.7
Surface Preparation Priming	con also Prir to e con Not Wh Sika	npounc o <u>enhai</u> ning is excessi nplete i te: Mos en EIF aflex 42	l residu nce bor typical vely po nforma t Exter S manu 29 prim	ies and nd. Ins ly not r prous s ation as tior Ins ufactur	d any c tall bor necess ubstrat s to prin ulation rer spe	other fore nd break ary. Mos te. Consi mer requ Finish S cifies a p	eigr er f st s ult uire Sys orin	n matte tape of ubstra Sikafle ements tems (ner or	ers mus backe tes onl x Prim EIFS) f on-si	st be th er rod to y requi ner Tech manufa te bond	st-free, an noroughly i o prevent re priming hnical Dat acturers re d testing in ng is recon	remov bond a i if test a Shee comm ndicate	ed. A ro at base ing ind et or Te end th es a pri	ougher of join icates echnica e use c mer is	ied sur t. a need I Servi of a prii necess	face w , i.e. d ce for mer. sary,
Application		start o		plicatio	n temp	eratures,	40	°-100°F	E For co	old-wea	ther applica	ations,	pre-cor	nditionin	g units	to appr
	mat Sika tion stea	ely 70°l aflex-15 . Place	= is reco LM sho nozzle o	ommen ould be of gun i	ided. Ó appliec nto bott	nly apply d into joint tom of the	sea ts v e joi	alant to vhen jo int filling	clean, int slot i g entire	sound, is at mic joint. K	dry, and fro d-point of its eep nozzle t. Avoid ove	st-free s desig in the	[·] substra ned exp sealant	ates. Dansion , and co	and co	ntrac- on with
Tooling and Finishing	g Too	l sealar									ntrapment. design is 2					for 1/4
Removal	spill	ed or ex	cess p	roduct a	and pla	ent (chem ced in sui mental re	itat	ole seal	ant glov ed conf	es/ gog tainer. E	gles/clothin Dispose of e	ng). Wit excess	hout dii produc	rect con t and co	tact, re ontainer	move ⁻ in ac-
Over Painting			ek cur o paint		andard	l conditio	ons	when	using	Sikafle	x-15 LM in	total	water i	mmers	ion situ	ations
		bubblin Use of When Since White Light of The ul With jo	ng with bened of applyir system color te colors of timate bint sur	in the s cartride ng seal n is mo ends to ends to an yell perforr faces p	sealan ges an lant, av isture- o yellov low if e mance properl	t. d uni-pao void air-e cured, pe v slightly exposed of Sikafl y prepare	c s entr erm v wh to o lex- red	ausage rapmer nit suff hen ex direct (-15 LN and se	es the nt. cient e posed gas fire deper ealed, i	same o exposu- to ultra ed heat nds on movem	re to air. aviolet rays ing elemen good joint nent of +10	s. nts. : desig	n and i	proper	applica	ation.
_		Do no	t use in	i conta	ct with	bitumino	ous	s/aspha	altic ma	aterials						
IN SI P/ T(STRUCTI IEET WH ARTMENT O READ A	ONS O ICH AR AT 800 ND FO	N THE E AVAI 0.933.74 LLOW 1	PRODU LABLE 52 NOT THE WA	JCT'S M ONLIN (HING (ARNING	MOST CU IE AT HTT CONTAIN SS AND IN	IRR TP: IED NS1	RENT P //USA.S IN ANY TRUCT	RODUC SIKA.CO (SIKA ONS F	om/ Or Mater Or Eag	AYS READ A SHEET, F BY CALLI IALS RELIE CH SIKA PF HEET PRIO	PRODU ING SII EVES 1 RODU(ICT LAI (A'S TE THE USI (T AS S	BEL AN ECHNIC ER OF 1 ET FOF	ID SAF AL SEF THE OB RTH IN	ety d/ Rvice Ligati
											MPTION. FOR IN disposal of c					
act bef	ual Safety I ore using t	Data She he produ	ets conta uct. In ca	aining pl ise of en	hysical, nergency	ecological, y, call CHE	, tox MTI	kicologio REC at 1	al and o -800-424	other safe 4-9300, li	ety related da nternational i gs and instru	ata. Rea 703-527	d the cur -3887.	rent actu	al Safet	y Data S
Dai me for pro	a Sheet, pr nt at 800-93 each Sika duct use.	oduct la 33-7452. product	bel and S Nothing as set fo	Safety Da containe rth in th	ata Shee ed in any e curren	t which are Sika mate It Product I	e av rials Data	vailable o s relieve a Sheet,	online at s the use product	http://us er of the label an	a.sika.com/ obligation to d Safety Dat	or by ca read an a Sheet	lling Sik d follow prior to	a's Techi the warn	nical Ser lings and	vice De _l d instruc
SIM	current Pr /er's sole r PRESS OR	oduct Da emedy sl IMPLIED	ta Sheet hall be lin SHALL E UNDER	if used a nited to t APPLY I ANY LE A MANN	as direct the purcl NCLUDI GAL TH ER TO IN	ed within s hase price NG ANY W/ EORY FOR IFRINGE OI	or r ARF SP NA	f life. Us eplacem RANTY (ECIAL O NY PATE	er deterr ent of pr F MERC R CONS NT OR A	nines su roduct ex CHANTAI EQUENT NY OTHI	Ifacturing de itability of pr cclusive of lal BILITY OR FI FIAL DAMAG ER INTELLEC	oduct fo bor or co TNESS ES. SIK	or intendo ost of lab FOR A P A SHALL ROPERT	ed use an or. NO O ARTICUL NOT BE	nd assun THER W AR PUR RESPOI	nes all ri ARRAN POSE. S
Bu EX SH TH SA CA	EUSEOFT LE OF SIK LLING 201	HIS PRO A PROE 933-880	DUCTS A		BJECT S			S AND	CONDIT		SALE AVA		AT HT			BY OTHE
Bu EX SH TH SA CA Vis	EUSEOFT LE OF SIK LLING 201 it our web	HIS PRO A PROE 933-880 osite at u	DUCTS A D. Jsa.sika	.com								ILABLE	33-SIK/	P://USA	SIKA.C	BY OTH



Product Data Sheet Edition 5.13.2016 Sikaflex-1a

Sikaflex®-1a One part polyurethane, elastomeric sealant/adhesive

 SEALANT• WATER PROOFING & RESTORATION INSTITUTE

 Issued to: Sika Corporation Product: Sikaflex*-1A

 C719: Pass _ ✓ Ext:+35% Comp:-35%

 Substrate: Mortar, Aluminum, Glass Imotar substrate primed with Sika Primer 429]

 C661: Rating 40

 Validation Date: 8/3/12 - 8/2/17

 No. 0812-\$1121
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 SEALANT VALIDATION www.swrionline.org

	www.swritenine.org
Description	Sikaflex-1a is a premium-grade, high-performance, moisture-cured, 1-component, polyurethane-based, non-sa elastomeric sealant. Meets Federal specification TT-S-00230C, Type II, Class A. Meets ASTM C-920, Type S, Grade NS, Class 35, use T, NT, O, M, G, I; Canadian standard CAN/CGSB 19.13-M87.
Where to Use	 Designed for all types of joints where maximum depth of sealant will not exceed 1/2 in. Excellent for small joints and fillets, windows, door frames, reglets, flashing, common roofing detail applications, and many construction adhesive applications. Suitable for vertical and horizontal joints; readily placeable at 40°F. Has many applications as an elastic adhesive between materials with dissimilar coefficients of expansion. Submerged conditions, such as canal and reservoir joints.
Advantages	 Eliminates time, effort, and equipment for mixing, filling cartridges, pre-heating or thawing, and cleaning of equipment. Fast tack-free and final cure times. High elasticity - cures to a tough, durable, flexible consistency with exceptional cut and tear-resistance. Stress relaxation. Excellent adhesion - bonds to most construction materials without a primer. Excellent resistance to aging, weathering. Proven in tough climates around the world. Odorless, non-staining. et fuel resistant. Certified to the NSF/ANSI Standard 61 for potable water. Urethane-based; suggested by EPA for radon reduction. Paintable with water-, oil- and rubber-based paints.
	 Capable of ±35% joint movement.
Chemical Resista	nce Good resistance to water, diluted acids, and diluted alkalines. Consult Technical Service for specific data.
Chemical Resista Packaging	10.1 fl. oz. (300 mL), 20 fl. oz. (591 mL), 4.5 gal (17 L) in a 5 gal pail, 52 gal (197 L) in a 55 gal drum Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.)
	10.1 fl. oz. (300 mL), 20 fl. oz. (591 mL), 4.5 gal (17 L) in a 5 gal pail, 52 gal (197 L) in a 55 gal drum Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Shelf Life 10.1 fl. oz. cartridges 12 months
	10.1 fl. oz. (300 mL), 20 fl. oz. (591 mL), 4.5 gal (17 L) in a 5 gal pail, 52 gal (197 L) in a 55 gal drum Typical Data (<i>Material and curing conditions</i> @ 73°F (23°C) and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.
	10.1 fl. oz. (300 mL), 20 fl. oz. (591 mL), 4.5 gal (17 L) in a 5 gal pail, 52 gal (197 L) in a 55 gal drum Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Shelf Life 10.1 fl. oz. cartridges 12 months 20 fl. oz. uni-pac sausages 12 months 5 gallon pail 6 months 55 gallon drum 6 months Storage Conditions VOC Content 40 g/L Colors White, colonial white, aluminum gray, limestone, black, dark bronze, capitol tan, stone and
	10.1 fl. oz. (300 mL), 20 fl. oz. (591 mL), 4.5 gal (17 L) in a 5 gal pail, 52 gal (197 L) in a 55 gal drum Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Shelf Life 10.1 fl. oz. cartridges 12 months 20 fl. oz. uni-pac sausages 12 months 5 gallon pail 6 months 55 gallon drum 6 months Storage Conditions VOC Content 40 g/L
	10.1 fl. oz. (300 mL), 20 fl. oz. (591 mL), 4.5 gal (17 L) in a 5 gal pail, 52 gal (197 L) in a 55 gal drum Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Shelf Life 10.1 fl. oz. cartridges 12 months 20 fl. oz. uni-pac sausages 12 months 5 gallon pail 6 months 55 gallon drum 6 months 55 gallon drum 6 months VOC Content 40 g/L Colors White, colonial white, aluminum gray, limestone, black, dark bronze, capitol tan, stone and medium bronze. Special architectural colors on request. Application Temperature 40° to 170°F Curing Rate -40° to 170°F Curing Rate Tack-free time
	10.1 fl. oz. (300 mL), 20 fl. oz. (591 mL), 4.5 gal (17 L) in a 5 gal pail, 52 gal (197 L) in a 55 gal drum Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Shelf Life 10.1 fl. oz. cartridges 12 months 20 fl. oz. uni-pac sausages 12 months 5 gallon pail 6 months 55 gallon drum 6 months Storage Conditions Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using. VOC Content 40 g/L Colors White, colonial white, aluminum gray, limestone, black, dark bronze, capitol tan, stone and medium bronze. Special architectural colors on request. Application Temperature 40° to 100°F. Sealant should be installed when joint is at mid-range of its anticipated movement. Service Range -40° to 170°F Curing Rate
	10.1 fl. oz. (300 mL), 20 fl. oz. (591 mL), 4.5 gal (17 L) in a 5 gal pail, 52 gal (197 L) in a 55 gal drum Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Shelf Life 10.1 fl. oz. cartridges 12 months 20 fl. oz. uni-pac sausages 12 months 5 gallon pail 6 months 55 gallon drum 6 months 55 gallon drum 6 months VOC Content 40 g/L Colors White, colonial white, aluminum gray, limestone, black, dark bronze, capitol tan, stone and medium bronze. Special architectural colors on request. Application Temperature 40° to 100°F. Sealant should be installed when joint is at mid-range of its anticipated movement. Service Range -40° to 170°F Curing Rate Tack-free time 3 to 6 hours Final cure Final cure 4 to 7 days 5 bl./in. Shore A Hardness (ASTM C-661) 21 day 40±5
	10.1 fl. oz. (300 mL), 20 fl. oz. (591 mL), 4.5 gal (17 L) in a 5 gal pail, 52 gal (197 L) in a 55 gal drum Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Shelf Life 10.1 fl. oz. cartridges 12 months 20 fl. oz. uni-pac sausages 12 months 5 gallon pail 6 months 55 gallon drum 6 months Storage Conditions Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using. VOC Content 40 g/L Colors White, colonial white, aluminum gray, limestone, black, dark bronze, capitol tan, stone and medium bronze. Special architectural colors on request. Application Temperature 40° to 170°F Curing Rate Tack-free time 3 to 6 hours Tack-free to touch Tear Strength (ASTM D-624) 55 lb./in. Shore A Hardness (ASTM C-719) +/- 35% Tensile Properties (ASTM D-412) 21 day 21 day Tensile Stress
	10.1 fl. oz. (300 mL), 20 fl. oz. (591 mL), 4.5 gal (17 L) in a 5 gal pail, 52 gal (197 L) in a 55 gal drum Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Shelf Life 10.1 fl. oz. cartridges 12 months 5 gallon pail 6 months 55 gallon drum 6 months Storage Conditions Storage Conditions Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using. VOC Content 40 g/L Colors White, colonial white, aluminum gray, limestone, black, dark bronze, capitol tan, stone and medium bronze. Special architectural colors on request. Application Temperature 40° to 170°F Curing Rate Tear Strength (ASTM D-624) S5 bl./in. Shore A Hardness (ASTM D-421) 21 day Tensile Stress 175 psi (1.21 MPa) Elongation at Break 550% Stress at 100% Abore A Hardness (ASTM D-412) 21 day Tensile Stress<



How to Use	Width	Depth 1/4" 3/8"	1/4" 24.3	3/8"	1/2")epth	1/4"	3/8"	1/2"		D	epth	1/4"	3/8"	1/2"
How to Use	Width	<u> </u>	24.3					repen	1/ 4	-/-	-7-		-	epui	1/4	3/0	1/2"
How to Use	Width	3/8"					1	1/4"	48.1					1/4"	307.9		
tow to Use	Width		16.2	10.8				3/8"	32.1	21.4				3/8"	205.3	136.8	
tow to Use	Width	1/2"	12.1	8.1	6.1			1/2"	24.1	16.0	12.0			1/2"	153.9	102.6	77.0
low to Use	15	3/4"	8.1	5.4	4.0	1	Width	3/4"	16.0	10.7	8.0		Width	3/4"	102.6	68.4	51.3
low to Use		1"			3.0	1	>	1"		Ì	6.0		5	1"	ĺ		38.5
low to Use		1.25"			2.4	i		1.25"		İ	4.8			1.25"			30.8
low to Use		1.5"			2.0	1		1.5"			4.0			1.5"			25.7
Surface Preparation	resi	dues a		other	foreigr	n matte	er mi	ust be	thorou	ghly re	moved	. A rou	Jghe	ened s			compour so enhanc
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Sika Mexicana S.A. de C.V. Carretera Libre Celaya Km. 8.5 Fracc. Industrial Balvanera Corregidora, Queretaro C.P. 76920 Phone: 52 442 2385800 Fax: 52 442 2250537

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B20

Product Data Sheet

Edition 5.11.2016 Sikaflex[®]-1a+

Sikaflex[®]-1a+

		moisture-cured, 1-component, polyurethane-based, non-sag and damp concrete applications. Meets Federal Specification e S, Grade NS, Class 35, use T, NT, O, M, G, I.								
Where to Use	 Designed for all types of joints where maximum dependence 	pth of sealant will not exceed 1/2 in.								
	 Excellent for small joints and fillets, windows, door frames, reglets, flashing, common roofing detail applications, and many construction adhesive applications. 									
	 applictions, and many construction adhesive applications. Suitable for vertical and horizontal joints; readily placeable at 40°F 									
		etween materials with dissimilar coefficients of expansion.								
	 Submerged conditions, such as canal and reservoir j 									
Advantages	 Eliminates time, effort, and equipment for mixing, of equipment. 	filling cartridges, pre-heating or thawing, and cleaning								
	 Fast tack-free and final cure times. 									
	 High elasticity - cures to a tough, durable, flexible control 	onsistency with exceptional cut and tear -resistance.								
	 Stress relaxation. 									
	 Excellent adhesion - bonds to most construction ma 	aterials without a primer.								
	 Excellent resistance to aging, weathering. 									
	 Proven in tough climates around the world. 									
	 Can be applied to green concrete 24 hours after pour Can be applied to draw associate 1 hours after activity 									
	 Can be applied to damp concrete 1 hour after gettin Oderlass, non-staining 	g wet								
	Odorless, non-staining.Jet fuel resistant.									
	 Certified to the NSF/ANSI Standard 61 for potable w 	/ater								
	 Urethane-based; suggested by EPA for radon reduct 									
	 Paintable with water-, oil- and rubber-based paints. 									
	 Capable of ±35% joint movement. 									
Chemical Resistance	Good resistance to water, diluted acids, and diluted alk	alines. Consult Technical Service for specific data.								
Packaging	10.1 fl. oz. (300 mL) Cartridge									
	20 fl. oz. uni-pac Sausages									
	Typical Data (Material and curing conditions @ 75	$(24^{\circ}C)$ and $E00^{\circ}$ DU								
	Typical Data (Material and curing conditions @ 75 RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEF									
	Typical Data (Material and curing conditions @ 75 RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEF TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL	PENDING UPON MIXING METHODS AND EQUIPMENT,								
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEF	PENDING UPON MIXING METHODS AND EQUIPMENT,								
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEF TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL	PENDING UPON MIXING METHODS AND EQUIPMENT, . SITE CONDITIONS AND CURING CONDITIONS.								
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEF TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL Shelf Life: Storage: Product Conditioning:	PENDING UPON MIXING METHODS AND EQUIPMENT, SITE CONDITIONS AND CURING CONDITIONS. 12 months in original, unopened packaging. Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using.								
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEF TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL Shelf Life: Storage: Product Conditioning: Colors:	PENDING UPON MIXING METHODS AND EQUIPMENT, SITE CONDITIONS AND CURING CONDITIONS. 12 months in original, unopened packaging. Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using. White & Limestone								
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEF TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL Shelf Life: Storage: Product Conditioning:	PENDING UPON MIXING METHODS AND EQUIPMENT, SITE CONDITIONS AND CURING CONDITIONS. 12 months in original, unopened packaging. Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using.								
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEF TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL Shelf Life: Storage: Product Conditioning: Colors: Application Temperature: Service Range:	PENDING UPON MIXING METHODS AND EQUIPMENT, STRE CONDITIONS AND CURING CONDITIONS. 12 months in original, unopened packaging. Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using. White & Limestone 40° to 100°F. Sealant should be installed when joint is at mid-range of its anticipated movement. -40° to 170°F								
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEF TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL Shelf Life: Storage: Product Conditioning: Colors: Application Temperature:	PENDING UPON MIXING METHODS AND EQUIPMENT, STRE CONDITIONS AND CURING CONDITIONS. 12 months in original, unopened packaging. Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using. White & Limestone 40° to 100°F. Sealant should be installed when joint is at mid-range of its anticipated movement.								
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEF TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL Shelf Life: Storage: Product Conditioning: Colors: Application Temperature: Service Range:	 PENDING UPON MIXING METHODS AND EQUIPMENT, SITE CONDITIONS AND CURING CONDITIONS. 12 months in original, unopened packaging. Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using. White & Limestone 40° to 100°F. Sealant should be installed when joint is at mid-range of its anticipated movement. -40° to 170°F Tack-free time 3 to 6 hours 								
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEF TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL Shelf Life: Storage: Product Conditioning: Colors: Application Temperature: Service Range: Curing Rate:	 PENDING UPON MIXING METHODS AND EQUIPMENT, STEE CONDITIONS AND CURING CONDITIONS. 12 months in original, unopened packaging. Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using. White & Limestone 40° to 100°F. Sealant should be installed when joint is at mid-range of its anticipated movement. -40° to 170°F Tack-free time 3 to 6 hours Tack-free to touch 3 hours 								
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEF TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL Shelf Life: Storage: Product Conditioning: Colors: Application Temperature: Service Range: Curing Rate: Final cure:	 PENDING UPON MIXING METHODS AND EQUIPMENT, SITE CONDITIONS AND CURING CONDITIONS. 12 months in original, unopened packaging. Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using. White & Limestone 40° to 100°F. Sealant should be installed when joint is at mid-range of its anticipated movement. -40° to 170°F Tack-free time 3 to 6 hours Tack-free to uch 3 hours 4 to 7 days 								
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEF TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAN Shelf Life: Storage: Product Conditioning: Colors: Application Temperature: Service Range: Curing Rate: Final cure: Tear Strength (ASTM D-624):	 PENDING UPON MIXING METHODS AND EQUIPMENT, SITE CONDITIONS AND CURING CONDITIONS. 12 months in original, unopened packaging. Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using. White & Limestone 40° to 100°F. Sealant should be installed when joint is at mid-range of its anticipated movement. -40° to 170°F Tack-free time 3 to 6 hours Tack-free to touch 3 hours 4 to 7 days 55 lb./in. 								
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEF TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL Shelf Life: Storage: Product Conditioning: Colors: Application Temperature: Service Range: Curing Rate: Final cure: Tear Strength (ASTM D-624): Shore A Hardness (ASTM C-661): Movement Capability (ASTM C-719): Tensile Properties (ASTM D-412):	 PENDING UPON MIXING METHODS AND EQUIPMENT, SITE CONDITIONS AND CURING CONDITIONS. 12 months in original, unopened packaging. Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using. White & Limestone 40° to 100°F. Sealant should be installed when joint is at mid-range of its anticipated movement. -40° to 170°F Tack-free time 3 to 6 hours Tack-free to touch 3 hours 4 to 7 days 55 lb./in. 21 day 45±5 +/- 35% 								
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEF TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL Shelf Life: Storage: Product Conditioning: Colors: Application Temperature: Service Range: Curing Rate: Final cure: Tear Strength (ASTM D-624): Shore A Hardness (ASTM C-661): Movement Capability (ASTM C-719): Tensile Properties (ASTM D-412): 21 day Tensile Stress	 Perding upon MIXING METHODS AND EQUIPMENT, STITE CONDITIONS AND CURING CONDITIONS. 12 months in original, unopened packaging. Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using. White & Limestone 40° to 100°F. Sealant should be installed when joint is at mid-range of its anticipated movement. -40° to 170°F Tack-free time 3 to 6 hours Tack-free to touch 3 hours 4 to 7 days 55 lb./in. 21 day 45±5 +/- 35% 175 psi (1.21 MPa) 								
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEF TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAN Shelf Life: Storage: Product Conditioning: Colors: Application Temperature: Service Range: Curing Rate: Final cure: Tear Strength (ASTM D-624): Shore A Hardness (ASTM D-624): Shore A Hardness (ASTM C-661): Movement Capability (ASTM C-719): Tensile Properties (ASTM D-412): 21 day Tensile Stress Elongation @ Break	 Perboling UPON MIXING METHODS AND EQUIPMENT, STITE CONDITIONS AND CURING CONDITIONS. 12 months in original, unopened packaging. Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using. White & Limestone 40° to 100°F. Sealant should be installed when joint is at mid-range of its anticipated movement. -40° to 170°F Tack-free time 3 to 6 hours Tack-free to touch 3 hours 4 to 7 days 55 lb./in. 21 day 45±5 +/- 35% 175 psi (1.21 MPa) 550% 								
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEF TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAN Shelf Life: Storage: Product Conditioning: Colors: Application Temperature: Service Range: Curing Rate: Final cure: Tear Strength (ASTM D-624): Shore A Hardness (ASTM C-661): Movement Capability (ASTM C-719): Tensile Properties (ASTM D-412): 21 day Tensile Stress Elongation @ Break Stress @ 100%	 Perding upon MIXING METHODS AND EQUIPMENT, STITE CONDITIONS AND CURING CONDITIONS. 12 months in original, unopened packaging. Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using. White & Limestone 40° to 100°F. Sealant should be installed when joint is at mid-range of its anticipated movement. -40° to 170°F Tack-free time 3 to 6 hours Tack-free to touch 3 hours 4 to 7 days 55 lb./in. 21 day 45±5 +/- 35% 175 psi (1.21 MPa) 								
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEF TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAN Shelf Life: Storage: Product Conditioning: Colors: Application Temperature: Service Range: Curing Rate: Final cure: Tear Strength (ASTM D-624): Shore A Hardness (ASTM D-624): Shore A Hardness (ASTM C-661): Movement Capability (ASTM C-719): Tensile Properties (ASTM D-412): 21 day Tensile Stress Elongation @ Break Stress @ 100% Adhesion in Peel (TT-S-00230C, ASTM C 794):	 PENDING UPON MIXING METHODS AND EQUIPMENT, STEE CONDITIONS AND CURING CONDITIONS. 12 months in original, unopened packaging. Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using. White & Limestone 40° to 100°F. Sealant should be installed when joint is at mid-range of its anticipated movement. -40° to 170°F Tack-free time 3 to 6 hours Tack-free to touch 3 hours 4 to 7 days 55 lb./in. 21 day 45±5 +/- 35% 175 psi (1.21 MPa) 550% 85 psi (0.59 MPa) 								
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEF TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAN Shelf Life: Storage: Product Conditioning: Colors: Application Temperature: Service Range: Curing Rate: Final cure: Tear Strength (ASTM D-624): Shore A Hardness (ASTM C-661): Movement Capability (ASTM C-719): Tensile Properties (ASTM D-412): 21 day Tensile Stress Elongation @ Break Stress @ 100%	 PERDING UPON MIXING METHODS AND EQUIPMENT, STITE CONDITIONS AND CURING CONDITIONS. 12 months in original, unopened packaging. Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using. White & Limestone 40° to 100°F. Sealant should be installed when joint is at mid-range of its anticipated movement. -40° to 170°F Tack-free time 3 to 6 hours Tack-free to touch 3 hours 4 to 7 days 55 lb./in. 21 day 45±5 +/- 35% 175 psi (1.21 MPa) 550% 								

PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.



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10.1	oz Cartrio	dge: Yield	in Linear	feet		20 c	z Sausag	e: Yield ir	n Linear fe	et
Depth		1/4"	3/8"	3/8" 1/2"		C	lepth	1/4"	3/8"	1/2"
	1/4"	24.3					1/4"	48.1		
	3/8"	16.2	10.8				3/8"	32.1	21.4	
_	1/2"	12.1	8.1	6.1			1/2"	24.1	16.0	12.0
Width	3/4"	8.1	5.4	4.0		Width	3/4"	16.0	10.7	8.0
-	1"			3.0			1"			6.0
	1.25"			2.4			1.25"			4.8
	1.5"			2.0			1.5"			4.0

How to Use Surface Preparation

Limitations

n Clean all surfaces. Joint walls must be sound, clean, frost-free, and free of oil and grease. Curing compound residues and any other foreign matter must be thoroughly removed. A roughened surface will also enhance bond. Install bond breaker tape or backer rod to prevent bond at base of joint. Priming is not usually necessary. Most substrates only require priming if testing indicates a need or where sealant will be subjected to water immersion after cure.

For green concrete applications control joints must be cut 8 hours prior to sealant installation and in expansion joint forms must be removed 4 hours prior to sealant installation. For wet concrete applications all excess or standing water must be displaced and concrete must then dry for a minimum of 60 min prior to sealant installation. Consult Sikaflex Primer Technical Data Sheet or Technical Service for additional information on priming.

ApplicationRecommended application temperatures: 40°-100°F. For cold weather application, condition units at approximately 70°F;
remove prior to using. For best performance, Sikaflex-1a+ should be gunned into joint when joint slot is at mid-point of
its designed expansion and contraction. Place nozzle of gun into bottom of the joint and fill entire joint. Keep the nozzle
in the sealant, continue on with a steady flow of sealant preceding the nozzle to avoid air entrapment. Avoid overlapping
of sealant to eliminate entrapment of air.Sikaflex-1a+ can be applied on green concrete after the concrete has cured for a minimum of 24 hours at 75°F.Control joints
must be cut and open for min of 8 hours prior to application. Expansion joints must have forms removed a minimum
of 4 hours prior to application. For damp concrete applications Sikaflex-1a+ can be applied 60 minutes after any and all
water has been displaced.

Tooling and FinishingTool sealant to ensure full contact with joint walls and remove air entrapment. Joint dimension should allow for 1/4 inch
minimum and 1/2 inch maximum thickness for sealant. Proper design is 2:1 width to depth ratio, For use in horizontal
joints in traffic areas, the absolute minimum depth of the sealant is 1/2 in. and closed cell backer rod is recommended.RemovalUse personal protective equipment (chemical resistant gloves/goggles/clothing). Without direct contact, remove spilled
or excess product and placed in suitable sealed container. Dispose of excess product and container in accordance with

 applicable environmental regulations.

 Over Painting
 Allow 1-week cure at standard conditions when using Sikaflex-1a+ in total water immersion situations and prior to painting.

- Allow 1 week cure at standard conditions when using Sikaflex-1a+ in total water immersion situations.
- When overcoating with water, oil and rubber based paints, compatibility and adhesion testing is essential.
- Sealant should be allowed to cure for 7 days prior to overcoating
- Avoid exposure to high levels of chlorine. (Maximum continuous level is 5 ppm of chlorine.)
- Maximum depth of sealant must not exceed 1/2 in.; minimum depth is 1/4 in.
 - Maximum expansion and contraction should not exceed 35% of average joint width.
- Do not cure in the presence of curing silicone sealants.
- Avoid contact with alcohol and other solvent cleaners during cure.
- Do not apply when moisture-vapor-transmission condition exists from the substrate as this can cause bubbling within the sealant.
- Use opened cartridges and uni-pac sausages the same day.
- When applying sealant, avoid air-entrapment.
- Since system is moisture-cured, permit sufficient exposure to air.
- White color tends to yellow slightly when exposed to ultraviolet rays.
- Light colors can yellow if exposed to direct gas fired heating element.
- The ultimate performance of Sikaflex-1a+ depends on good joint design and proper application with joint surfaces properly prepared.
- The depth of sealant in horizontal joints subject to traffic is 1/2 in.
- Do not tool with detergent or soap solutions.
- Do not use in contact with bituminous/asphaltic materials.
- In green concrete applications sealing joints in poor or low strength concrete 24 hours after pour may impact ability of sealant to gain proper adhesion.
- In damp concrete applications all standing water and excess water must be eliminated prior to the 60 minute waiting time.



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For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of

emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE

EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

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Visit our website at usa.sika.com 1-800-933-Regional Information and Sales Centers. For the location of your nearest Sika sales office, contact your regional center.

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Sika Corporation 201 Polito Avenue Lyndhurst, NJ 07071 Phone: 800-933-7452 Fax: 201-933-6225

Sika Canada Inc. 601 Delmar Avenue Pointe Claire Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792 Sika Mexicana S.A. de C.V. Carretera Libre Celaya Km. 8.5 Fracc. Industrial Balvanera Corregidora, Queretaro C.P. 76920 Phone: 52 442 2385800 Fax: 52 442 2250537



B30

Sikaflex[®]-1c SL High performance, self-leveling, 1-part polyurethane sealant

		eveling, premium-grade polyurethane sealant with an accelerated curi 0230C, Type I, Class A. Meets ASTM C-920, Type S, Grade P, Class 25, use
here to Use	Sikaflex-1c SL is used to seal horizontal expa Sidewalks Balconies Pavements Terraces Warehouses Factories Civil Structures Plazas Pitch Pans Canals and Water Treatment	nsion joints in concrete and cementitious slabs such as:
lvantages	 1-component, no mixing Self-leveling, pourable Accelerated curing Can be applied to green concrete 24 hour Can be applied to damp concrete 1 hour a Extremely elastic High durability Resists aging, weathering Excellent adhesion Convenient, easy-to-use packaging Jet fuel resistant Water Immersion Applications 	
ckaging	10.1 fl. oz. moisture-proof composite cartridg 29 oz. moisture-proof composite cartridges,	·
	4.5 gallon pails. 50 gallon drums.	
	Typical Data (Material and curing RESULTS MAY DIFFER BASED UPON STATISTICA TEMPERATURE, APPLICATION METHODS, TEST I	conditions 73°F (23°C) and 50% R.H.) L VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.
	Typical Data (Material and curing RESULTS MAY DIFFER BASED UPON STATISTICAL	conditions 73°F (23°C) and 50% R.H.)
	Typical Data (Material and curing RESULTS MAY DIFFER BASED UPON STATISTICA TEMPERATURE, APPLICATION METHODS, TEST I Shelf Life: Storage Conditions: Color:	conditions 73°F (23°C) and 50% R.H.) L VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. 10.1 oz. cartridge 1 year in original unopened packaging. 29 oz. cartridge 1 year in original unopened packaging. 4.5 gallon pail 6 months. 50 gallon drum 6 months. Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using. Limestone 40 g/I 40°-100°F. Sealant should be installed when joint is at mid-range of its anticipated movement. -40° to 170°F. 1 to 2 hours. Final Cure: 3 to 5 days >90%
	Typical Data (Material and curing RESULTS MAY DIFFER BASED UPON STATISTICA TEMPERATURE, APPLICATION METHODS, TEST I Shelf Life: Storage Conditions: Color: VOC Content: Application Temperature: Service Range: Curing Rate Tack-free Time: Recovery:	conditions 73°F (23°C) and 50% R.H.) L VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. 10.1 oz. cartridge 1 year in original unopened packaging. 29 oz. cartridge 1 year in original unopened packaging. 4.5 gallon pail 6 months. 50 gallon drum 6 months. 50 gallon drum 6 months. Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using. Limestone 40 g/l 40°-100°F. Sealant should be installed when joint is at mid-range of its anticipated movement. -40° to 170°F. 1 to 2 hours. Final Cure: 3 to 5 days



Coverage	10.1	oz Cartri	dge: Yield	in Linear	feet		29 0	oz Cartrid	ge: Yield i	n Linear f	eet		1 ga	llon: Yiel	d in Linea	r feet	
	[Depth	1/4"	3/8"	1/2"	[[Depth	1/4"	3/8"	1/2"		1	Depth	1/4"	3/8"	1/2
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		3/8"	16.2	10.8				3/8"	46.5	31.0		1		3/8"	205.3	136.8	
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	<u>ج</u>	1/2"	12.1	8.1	6.1		÷	1/2"	34.9	23.3	17.4	ļ		1/2"	153.9	102.6	77.1
	Width	3/4"	8.1	5.4	4.0		Width	3/4"	23.3	15.5	11.6		Width	3/4"	102.6	68.4	51.3
		1"			3.0			1"			8.7			1"			38.
		1.25"			2.4			1.25"			7.0]		1.25"			30.
		1.5"			2.0			1.5"	i – –	i —	5.8	1		1.5"	i —	i	25.
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Construction

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B40

Sikaflex[®]-2c NS

Two-component, non-sag, polyurethane elastomeric sealant

Description	Sikaflex-2c NS is a 2-component, premium-grade, polyurethane-based, elastomeric sealant. It is principally a chemical cure in a non-sag consistency. Meets ASTM C-920, Type M, Grade NS, Class 25, use T, NT, M, G A, O, I and Federal Specification TT-S-00227E, Type II, Class A. Tested in accordance with ASTM C-1382 for use in EIFS systems.
Where to use	 Intended for use in all properly designed working joints with a minimum depth of 1/4 inch. Ideal for vertical and horizontal applications. Placeable at temperatures as low as 40°F. Adheres to most substrates commonly found in construction. An effective sealant for use in Exterior Insulation Finish Systems (EIFS). Submerged environments, such as canal and reservoir joints.
Advantages	 Capable of ±50% joint movement. Chemical cure allows the sealant to be placed in joints exceeding 1/2 in. in depth. High elasticity with a tough, durable, flexible consistency. Exceptional cut and tear resistance. Exceptional adhesion to most substrates without priming. Available in 35 architectural colors. Color uniformity assured via Color-pak system. Available in pre-pigmented Limestone Gray (no Color-pak needed). Non-sag even in wide joints. Easy to mix. Paintable with water-, oil-, and rubber-base paints. Jet fuel resistant.
Packaging	1.5 gal. unit. 3 gal units.

Typical Data (*Material and curing conditions 73°F (23°C) and 50% R.H.*) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf life	One year in original, unopened containers.					
Storage Conditions	Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using.					
Colors	A wide range of architectural colors are avail- able. Special colors available on request.					
Application Temperature	40° to 100°F, ambient and substrate temperatures. Sealant should be installed when joint is at mid- range of its anticipated movement.					
Service Range	-40° to 170°F (-40°-75°C).					
Curing Rate (ASTM C-679)						
Tack-Free Time	6-8 hrs.					
Final Cure	3 days					
Application Life	3-4 hrs.					
Tear Strength	ASTM D-624 45 lb./in.					
Shore A Hardness	ASTM D-2240 25 ± 5					
Tensile Properties (ASTM D-412) Tensile Strength at Break Tensile Elongation Stress at 100%	95 psi 500% 70 psi					
Adhesion in Peel (Fed Spec. TT-S-00	227E)					
SubstratePeel StrengthConcrete25 lb.	% Adhesion Loss Zero					
Weathering Resistance	Excellent					
Chemical Resistance	Good resistance to water, diluted acids, diluted alka lines, and residential sewage. Consult Technical Service at 1-800-933-SIKA for specific data.					



Coverage	1 ga	llon: Yiel	d in Linea	r feet		
	[Depth	1/4"	3/8"	1/2"	
		1/4"	307.9			
		3/8"	205.3	136.8		
		1/2"	153.9	102.6	77.0	
	Width	3/4"	102.6	68.4	51.3	
	>	1"			38.5	
		1.25"			30.8	
		1.5"			25.7	
How to Use						
Surface Preparatic	and tape Prim cure Serv Syst testi	any othe or back ning is ty . Testin vice or S tems (El ng indic	er foreig ker rod i ypically g shoul Sikaflex IFS) ma cates a p	in matte must be not nec d be do Primer nufactu primer is	er that mi e used in cessary. one, how Technic irers reco s necess	n, sound, and frost-free. Joint walls must be free of oils, grease, curing compound residuight prevent bond. Ideally this should be accomplished by mechanical means. Bond breat bottom of joint to prevent bond. Most substrates only require priming if sealant will be subjected to water immersion af vever, on questionable substrates, to determine if priming is needed. Consult Techni al Data Sheet for additional information on priming. Note: Most Exterior Insulation Fin ommend the use of a primer. When EIFS manufacturer specifies a primer or if on-site boary, Sikaflex 429 primer is recommended. On-site adhesion testing is recommended was
Mixing	Pour low- dow mixir of th shou time	r entire speed o n sides ng pado le pail du uld reac e and the	content drill (400 of pail p dle to the uring the h the bo en mix f	s of Co)-600 rp periodica e botton e first m ottom of or an ac	om) and ally. Avo n of the inute of the pail dditional	DD. tr 'B' into pail of Component 'A'. Add entire contents of Color-pak into pail and mix with Sikaflex paddle.* Mix for 3-5 minutes to achieve a uniform color and consistency. Scra- id entrapment of air during mixing. When mixing in cold weather (<50°F), do not force pail. After adding Component 'B' and Color-pak into Component 'A', mix the top 1/2 to mixing. After scraping down the sides of the pail, mix again for another minute. The pad between the first and second minute of mixing. Scrape down the sides of the pail a seco I 2-3 minutes until the sealant is well blended. Color-pak must be used with tint base. I st mix with low speed drill and Sikaflex paddle (no Color-pak needed).
Application	at ex Appl at m To p joint Also max	xtremes ly seala iid-point lace, loa Keepir o, avoid	Move nt only of its do ad direct ng the no overlapp nickness	pre-con to clear esigned tly into b ozzle de ping of s s for sea	iditioned n, sound l expans oulk gun eep in th sealant : alant. P	atures 40°-100°F. Pre-conditioning units to approximately 70°F is necessary when work I units to work areas just prior to application. I, dry, and frost-free substrates. Sikaflex-2c should be applied into joints when joint slo sion and contraction. or use a follower plate loading system. Place nozzle of gun into bottom of joint and fill ent is esalant, continue with a steady flow of sealant preceding nozzle to avoid air entrapme since this also entraps air. Joint dimension should allow for 1/4 inch minimum and 1/2 ir proper design is 2:1 width to depth ratio. Tool sealant to ensure full contact with joint wa
		Do not of Avoid co Allow 3 total wa Avoid e: Do not a Avoid or White co Light co When o Rigid pa The dep	cure in t contact w day cur tter imm xposure apply wh ver-mixi olor tene lors car vercoati aints, coa oth of se	he pres vith alco e before ersion. to high hen moi ing seal ds to yee yellow ing: an atings o ealant in	ence of hol and e subjec levels of isture va ant. ellow slig r if expos on-site t r primer horizor	raction should not exceed 50% of average joint width. curing silicones. other solvent cleaners during cure. titing sealant to total water immersion. Primer is required if sealant will be subjected to of chlorine. (Maximum level is 5 ppm). apor transmission exists since this can cause bubbling within the sealant. that when exposed to ultraviolet rays. seed to direct gas fired heating elements. test is recommended to determine actual compatibility. s will crack when placed over elastomeric sealants experiencing expansion or contraction that joints subject to traffic is 1/2 inch. y traffic either recess joint or use TG (Traffic Grade) Additive to increase durability.
II S F T KE FC ac	NSTRUC SHEET W PARTMEN TO READ RENT PRO EEP CONTAIN FOR further in citual Safety	TIONS (HICH A NT AT 80 AND F ODUCT NER TIGHT informati y Data Si	ON THI ARE AV/ 00.933. OLLOW DATA TLY CLOSE ion and heets co	E PROI AILABL 7452 NG 7452 NG 7452 NG 7452 NG 752 NG 80 NG 8	DUCT'S E ONLI OTHING VARNIN , PRODI DUT OF RE regarding physica	PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AN MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DA INE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE D & CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION IGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CU UCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE. ACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ON I transportation, handling, storage and disposal of chemical products, users should refer to the (ecological, toxicological and other safety related data. Read the current actual Safety Data Sh cy, call CHEMTREC at 1-800-424-9300, International 703-527-3887.
Da m fo	ata Sheet, ent at 800-	product 933-7452 a produc	label and 2. Nothin	d Safety ig contai	Data She ined in ar	rmust always read and follow the warnings and instructions on the product's most current Prod eet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depa ny Sika materials relieves the user of the obligation to read and follow the warnings and instruct ant Product Data Sheet, product label and Safety Data Sheet prior to
th Bi E2 Si TT	le current F uyer's sole XPRESS O HALL NOT HE USE OF	Product I remedy R IMPLIE BE LIAB THIS PR	Data She shall be ED SHAL LE UNDI ODUCT I ODUCTS	et if use limited t L APPL ER ANY I IN A MAN	d as dire to the pur Y INCLUE LEGAL T NNER TO	date of installation to be free from manufacturing defects and to meet the technical properties cted within shelf life. User determines suitability of product for intended use and assumes all ris chase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANT DING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SI HEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FI INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHER SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR
Vi	isit our we	ebsite a	t usa.sil		ont	1-800-933-SIKA NATIONWIDE
ka ®	Sika Co 201 Po Lyndhu Phone:	nformati orporati lito Aver urst, NJ (800-933)1-933-6	i on 1ue 07071 3-7452		Sika Ca 601 Delr Pointe C Quebec	For the location of your nearest Sika sales office, contact your regional center. nada Inc. mar Avenue Slare H9R 4A9 514-697-2610 C.P. 76920 Fracc. Industrial Balvanera Corregidora, Queretaro C.P. 76920 C.P. 76920

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nearest Sika sales office, contact Sika Mexicana S.A. de C.V. Carretera Libre Celaya Km. 8.5 Fracc. Industrial Balvanera Corregidora, Queretaro C.P. 76920 Phone: 52 442 2385800 Fax: 52 442 2250537

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Sikaflex[®]-2c NS EZ Mix

Two-component, non-sag, polyurethane elastomeric sealant

Description		g consistency. Meets AST	yurethane-based, elastomeric sealant. It M C-920, Type M, Grade NS, Class 25, us I, Class A. Meets CAN/CGSB 19.24 - M90
Vhere to Use	 Intended for use in all properly des Ideal for vertical and horizontal appl Placeable at temperatures as low as Adheres to most substrates commo An effective sealant for use in Exter Submerged environments, such as 	ications. s 40°F. hly found in construction. or Insulation Finish System	ms (EIFS).
Advantages	 Capable of ±50% joint movement. Chemical cure allows the sealant to High elasticity with a tough, durable Exceptional cut and tear resistance. Exceptional adhesion to most subst Available in 35 architectural colors. Color uniformity assured via Color-p Available in pre-pigmented Limestor Non-sag even in wide joints. Certified to the NSF/ANSI Standard Easy to mix. Paintable with water-, oil-, and rubb Jet fuel resistant. Cold weather booster for initial tack Shore A hardness can be increased 	flexible consistency. rates without priming. ak system. ne Gray (no Color-pak nee 61 for potable water. er-base paints. (see reverse side for data	eded).
	cific details.		
Packaging	1.5 gal. unit, 3 gal unit.		
Packaging	Typical Data (Material and RESULTS MAY DIFFER BASED UPON	STATISTICAL VARIATIONS DEPE	(23°C) and 50% R.H.) ENDING UPON MIXING METHODS AND EQUIPMENT, SITE CONDITIONS AND CURING CONDITIONS.
Packaging	Typical Data (Material and RESULTS MAY DIFFER BASED UPON 3 TEMPERATURE, APPLICATION METHO Shelf life	STATISTICAL VARIATIONS DEPE DS, TEST METHODS, ACTUAL S One year in origin	ENDING UPON MIXING METHODS AND EQUIPMENT, SITE CONDITIONS AND CURING CONDITIONS.
Packaging	Typical Data (Material and RESULTS MAY DIFFER BASED UPON TEMPERATURE, APPLICATION METHO	STATISTICAL VARIATIONS DEPE DS, TEST METHODS, ACTUAL S One year in origin Store dry at 40°-9	ENDING UPON MIXING METHODS AND EQUIPMENT, SITE CONDITIONS AND CURING CONDITIONS.
Packaging	Typical Data (Material and RESULTS MAY DIFFER BASED UPON 3 TEMPERATURE, APPLICATION METHO Shelf life	STATISTICAL VARIATIONS DEPE DS, TEST METHODS, ACTUAL S One year in origin Store dry at 40°-9 material to 65°-7:	ENDING UPON MIXING METHODS AND EQUIPMENT, SITE CONDITIONS AND CURING CONDITIONS. Hal, unopened containers. 15°F (4°-35°C). Condition 5°F before using. rchitectural colors are available.
Packaging	Typical Data (Material and RESULTS MAY DIFFER BASED UPON TEMPERATURE, APPLICATION METHO Shelf life Storage Conditions	Construction of the second sec	ENDING UPON MIXING METHODS AND EQUIPMENT, SITE CONDITIONS AND CURING CONDITIONS. Hal, unopened containers. 15°F (4°-35°C). Condition 5°F before using. rchitectural colors are available. ailable on request. bient and substrate temperatures. a installed when joint is at mid-range of its
Packaging	Typical Data (Material and RESULTS MAY DIFFER BASED UPON TEMPERATURE, APPLICATION METHO Shelf life Storage Conditions Colors	STATISTICAL VARIATIONS DEPE DS, TEST METHODS, ACTUAL S One year in origin Store dry at 40°-9 material to 65°-7 A wide range of an Special colors avs 40° to 100°F, amb Sealant should be	ENDING UPON MIXING METHODS AND EQUIPMENT, SITE CONDITIONS AND CURING CONDITIONS. 15°F (4°-35°C). Condition 5°F before using. rchitectural colors are available. ailable on request. bient and substrate temperatures. a installed when joint is at mid-range of its ment.
Packaging	Typical Data (Material and RESULTS MAY DIFFER BASED UPON TEMPERATURE, APPLICATION METHO Shelf life Storage Conditions Colors Application Temperature	STATISTICAL VARIATIONS DEPE DS, TEST METHODS, ACTUAL S One year in origin Store dry at 40°-9 material to 65°-7 A wide range of an Special colors ava 40° to 100°F, amb Sealant should be anticipated mover	ENDING UPON MIXING METHODS AND EQUIPMENT, SITE CONDITIONS AND CURING CONDITIONS. 15°F (4°-35°C). Condition 5°F before using. rchitectural colors are available. ailable on request. bient and substrate temperatures. a installed when joint is at mid-range of its ment.
Packaging	Typical Data (Material and RESULTS MAY DIFFER BASED UPON TEMPERATURE, APPLICATION METHO Shelf life Storage Conditions Colors Application Temperature Service Range	STATISTICAL VARIATIONS DEPE DS, TEST METHODS, ACTUAL S One year in origin Store dry at 40°-9 material to 65°-74 A wide range of an Special colors ave 40° to 100°F, amb Sealant should be anticipated mover -40° to 170°F (-40 Tack-Free Time	ENDING UPON MIXING METHODS AND EQUIPMENT, SITE CONDITIONS AND CURING CONDITIONS. 15°F (4°-35°C). Condition 5°F before using. rchitectural colors are available. ailable on request. bient and substrate temperatures. bient and substrate temperatures. bientalled when joint is at mid-range of its ment. 1°-75°C). 8-10 hrs.
Packaging	Typical Data (Material and RESULTS MAY DIFFER BASED UPON TEMPERATURE, APPLICATION METHO Shelf life Storage Conditions Colors Application Temperature Service Range Curing Rate (ASTM C-679)	STATISTICAL VARIATIONS DEPE DS, TEST METHODS, ACTUAL S One year in origin Store dry at 40°-9 material to 65°-74 A wide range of an Special colors ave 40° to 100°F, amb Sealant should be anticipated mover -40° to 170°F (-40 Tack-Free Time Final Cure	ENDING UPON MIXING METHODS AND EQUIPMENT, SITE CONDITIONS AND CURING CONDITIONS. 15°F (4°-35°C). Condition 5°F before using. rchitectural colors are available. ailable on request. bient and substrate temperatures. b installed when joint is at mid-range of its ment. 1°-75°C). 8-10 hrs.
Packaging	Typical Data (Material and RESULTS MAY DIFFER BASED UPON TEMPERATURE, APPLICATION METHO Shelf life Storage Conditions Colors Application Temperature Service Range Curing Rate (ASTM C-679) Application Life Tear Strength Shore A Hardness	STATISTICAL VARIATIONS DEPE DDS, TEST METHODS, ACTUAL S One year in origin Store dry at 40°-9 material to 65°-73 A wide range of an Special colors ava 40° to 100°F, amb Sealant should be anticipated mover -40° to 170°F (-40 Tack-Free Time Final Cure 4-6 hrs. ASTM D-624 ASTM D-2240	ENDING UPON MIXING METHODS AND EQUIPMENT, SITE CONDITIONS AND CURING CONDITIONS. 15°F (4°-35°C). Condition 5°F before using. rchitectural colors are available. ailable on request. bient and substrate temperatures. a installed when joint is at mid-range of its ment. 1°-75°C). 8-10 hrs. 3 days
Packaging	Typical Data (Material and RESULTS MAY DIFFER BASED UPON TEMPERATURE, APPLICATION METHO Shelf life Storage Conditions Colors Application Temperature Service Range Curing Rate (ASTM C-679) Application Life Tear Strength	STATISTICAL VARIATIONS DEPE DDS, TEST METHODS, ACTUAL S One year in origin Store dry at 40°-9 material to 65°-73 A wide range of an Special colors ava 40° to 100°F, amb Sealant should be anticipated mover -40° to 170°F (-40 Tack-Free Time Final Cure 4-6 hrs. ASTM D-624 ASTM D-2240	ENDING UPON MIXING METHODS AND EQUIPMENT, SITE CONDITIONS AND CURING CONDITIONS. Hal, unopened containers. 15°F (4°-35°C). Condition 5°F before using. rchitectural colors are available. ailable on request. bient and substrate temperatures. a installed when joint is at mid-range of its ment. 1°-75°C). 8-10 hrs. 3 days 45 lb./in.
Packaging	Typical Data (Material and RESULTS MAY DIFFER BASED UPON TEMPERATURE, APPLICATION METHO Shelf life Storage Conditions Colors Application Temperature Service Range Curing Rate (ASTM C-679) Application Life Tear Strength Shore A Hardness Tensile Properties (ASTM D-412 Tensile Strength at Break Tensile Elongation	STATISTICAL VARIATIONS DEPE DDS, TEST METHODS, ACTUAL S One year in origin Store dry at 40°-9 material to 65°-73 A wide range of an Special colors ava 40° to 100°F, amb Sealant should be anticipated mover -40° to 170°F (-40 Tack-Free Time Final Cure 4-6 hrs. ASTM D-624 ASTM D-2240 95 psi 300% 70 psi S-00227E)	ENDING UPON MIXING METHODS AND EQUIPMENT, SITE CONDITIONS AND CURING CONDITIONS. 15°F (4°-35°C). Condition 5°F before using. rchitectural colors are available. ailable on request. bient and substrate temperatures. a installed when joint is at mid-range of its ment. 0°-75°C). 8-10 hrs. 3 days 45 lb./in. 25 \pm 5
Packaging	Typical Data (Material and RESULTS MAY DIFFER BASED UPON TEMPERATURE, APPLICATION METHO Shelf life Shelf life Storage Conditions Colors Application Temperature Service Range Curing Rate (ASTM C-679) Application Life Tear Strength Shore A Hardness Tensile Properties (ASTM D-412 Tensile Strength at Break Stress at 100% Adhesion in Peel (Fed Spec. TT- Substrate	STATISTICAL VARIATIONS DEPE DDS, TEST METHODS, ACTUAL S One year in origin Store dry at 40°-9 material to 65°-73 A wide range of al Special colors ave 40° to 100°F, amb Sealant should be anticipated mover -40° to 170°F (-40) Tack-Free Time Final Cure 4-6 hrs. ASTM D-624 ASTM D-624 ASTM D-2240 95 psi 300% 70 psi S-00227E) th % Adhesion Loss	ENDING UPON MIXING METHODS AND EQUIPMENT, SITE CONDITIONS AND CURING CONDITIONS. tal, unopened containers. $15^{\circ}F$ (4°-35°C). Condition $5^{\circ}F$ before using. rchitectural colors are available. ailable on request. bient and substrate temperatures. a installed when joint is at mid-range of its ment. $9^{\circ}-75^{\circ}C$). 8-10 hrs. 3 days 45 lb./in. 25 ± 5



Coverage

1 ga	1 gallon: Yield in Linear feet								
)epth	1/4"	3/8"	1/2"					
	1/4"	307.9							
	3/8"	3/8" 205.3 136.8							
_	1/2"	153.9	102.6	77.0					
Width	3/4"	102.6	68.4	51.3					
	1"			38.5					
	1.25"			30.8					
	1.5"			25.7					

How to Use

Surface Preparation	Priming is typically not necessary. Most substrates only require priming if sealant will be subjected to water immersion after cure. Testing should be done, however, on questionable substrates, to determine if priming is needed. Consult Technical Service or Sikaflex Primer Technical Data Sheet for additional information on priming. Note: Most Exterior Insulation Finish Systems (EIFS) manufacturers recommend the use of a primer. When EIFS manufacturer specifies a primer or if on-site bond testing indicates a primer is necessary, Sikaflex 429 primer is recommended. On-site adhesion testing is recommended with final system prior to the start of a job.
Mixing	Pour entire contents of Component 'B' into pail of Component 'A'. Add entire contents of Color-pak into pail and mix with a low-speed drill (400-600 rpm) and Sikaflex paddle.* Mix for 3-5 minutes to achieve a uniform color and consistency. Scrape down sides of pail periodically. Avoid entrapment of air during mixing. When mixing in cold weather (<50°F), do not force the mixing paddle to the bottom of the pail. After adding Component 'B' and Color-pak into Component 'A', mix the top 1/2 to 3/4 of the pail during the first minute of mixing. After scraping down the sides of the pail, mix again for another minute. The paddle should reach the bottom of the pail between the first and second minute of mixing. Scrape down the sides of the pail a second time and then mix for an additional 2-3 minutes until the sealant is well blended. Color-pak must be used with tint base. For pre-pigmented Limestone base, just mix with low speed drill and Sikaflex paddle (no Color-pak needed).
Application	Recommended application temperatures 40°-100°F. Pre-conditioning units to 65-75°F is necessary when work- ing at extremes. Move pre-conditioned units to work areas just prior to application. Apply sealant only to clean, sound, dry, and frost-free substrates. Sikaflex-2c should be applied into joints when joint slot is at mid-point of its designed expansion and contraction. To place, load directly into bulk gun or use a follower plate loading system. Place nozzle of gun into bottom of joint and fill entire joint. Keeping the nozzle deep in the sealant, continue with a steady flow of sealant preceding nozzle to avoid air entrapment. Also, avoid overlapping of sealant since this also entraps air.
Tooling and Finishing	Tool sealant to ensure full contact with joint walls and remove air entrapment. Joint dimension should allow for 1/4 inch minimum and 1/2 inch maximum thickness for sealant. Proper design is 2:1 width to depth ratio. To accelerate the cure of Sikaflex-2c NS EZ Mix in cold weather temperatures, add Sikaflex-2c booster.
Removal	Uncured material can be removed with xylene. Strictly follow solvent manufacturer's warnings and instructions for use. Cured material can only be removed mechanically. For spillage, collect, absorb, and dispose of in accordance with current, applicable local, state, and federal regulations.

Sikaflex-2c NS EZ Mix Working Time, hours

	73°F	100°F	40°F
Sikaflex-2c NS	4-6 hrs.	3 hrs.	6 hrs.
w/ 1 booster	2 hrs.	1 hr.	2-3 hrs.
w/ 2 boosters	1 hr.	<1 hr.	1.5 hrs.



Cons

Limitations

- The ultimate performance of Sikaflex-2c NS EZ Mix, depends on good joint design and proper application.
 Minimum depth in working joint is 1/4 in.
- Maximum expansion and contraction should not exceed 50% of average joint width.
- When used in areas with heavy traffic either recess joint or use TG (Traffic Grade) Additive to increase durability.
- Do not cure in the presence of curing silicones.
- Avoid contact with alcohol and other solvent cleaners during cure.
- Allow 3 day cure before subjecting sealant to total water immersion. Primer is required if sealant will be subjected to total water immersion.
 - Avoid exposure to high levels of chlorine. (Maximum level is 5 ppm).
 - Do not apply when moisture vapor transmission exists since this can cause bubbling within the sealant.
 Avoid over-mixing sealant.
 - White color tends to yellow slightly when exposed to ultraviolet rays.
 - Light colors can yellow if exposed to direct gas fired heating elements.
- When overcoating, an on-site test is recommended to determine actual compatibility.
 - Rigid paints, coatings or primers will crack when placed over elastomeric sealants experiencing expansion or contraction
 - Do not use in contact with bituminous/asphaltic materials.

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SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.

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Product Data Sheet Edition 6.8.2016 Sikaflex-2c NS TG

Sikaflex[®]-2c NS TG

Two-component, traffic-grade, polyurethane elastomeric sealant

Description	cure in a non-sag consistency. Available in 3 Also available as a pre-pigmented product	lyurethane-based elastomeric sealant. It is principally a chemica 5 standard colors (>320 special colors) with a convenient Colorpak in Limestone Gray. Meets ASTM C 920, Type M, Grade NS, use T T-S-00227E. Product developed by addition of Sikaflex 2c NS TO EZ Mix joint sealant.
Where to Use	pneumatic-tire traffic. Intended for horizontal joints with a minir Placeable at temperatures as low as 40° Adheres to most substrates commonly for	F.
Advantages	 Capable of +25% joint movement. Chemical cure allows the sealant to be p Tough, durable, flexible consistency. Exceptional cut and tear resistance. Exceptional adhesion to most substrates Color uniformity assured via Color-pak s Fuel resistant. No Color-pak needed in pre-pigmented L 	without priming. ystem or pre-pigmented Limestone Gray.
Chemical Resistance	Good resistance to water, diluted acids, ar for specific data.	nd diluted alkalines. Consult Technical Service at 1-800-933-SIK
Packaging		nestone Gray color available pre-pigmented.
	RESULTS MAY DIFFER BASED UPON STATISTICA	I CONDITIONS 73°F (23°C) AND 50% R.H.) AL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.
	Shelf Life: Storage Condition: Colors:	One year in original, unopened containers. Store dry at 40°-95°F (4°-35°C). Condition material to 65°- 75°F before using. A wide range of architectural colors are available. Special colors available on request.
	Application Temperature: Service Range: Shore A Hardness (ASTM D-2240): Tensile Properties (ASTM D-412): Tensile Stress: Elongation at Break: Stress at 100%:	40° to 100°F, ambient and substrate temperatures. Sealant should be installed when joint is at mid-range of its anticipated movement. -40° to 170°F (-40° - 75°C) 21 day 45 \pm 5 21 day 220 psi 300% 140 psi
	Adhesion in Peel (TT-S-00230C, AST Substrate: Concre	TM C-794) te Peel Strength: 25 lb. Adhesion Loss: 0%
	Weathering Resistance: Chemical Resistance: Joint Movement Capability:	Excellent Good resistance to water, diluted acids, and diluted alkalines. Consult Technical Service for specific data.



Coverage

1 ga	llon: Yield	l in Linea	r feet	
0)epth	1/4"	3/8"	1/2"
	1/4"	307.9		
	3/8"	205.3	136.8	
	1/2"	153.9	102.6	77.0
Width	3/4"	102.6	68.4	51.3
	1"			38.5
	1.25"			30.8
	1.5"			25.7

How to Use

All joint-wall surfaces must be clean, sound, and frost-free. Joint walls must be free of oils, grease, curing Surface Preparation compound residues, and any other foreign matter that might prevent bond. Ideally, this should be accomplished by mechanical means. A roughened surface will also enhance bond. Bond breaker tape or backer rod must be used in bottom of joint to prevent bond. Priming Priming is typically not necessary. Most substrates only require priming if sealant will be subjected to water immersion after cure. Testing should be done, however, on questionable substrates, to determine if priming is needed. Consult Technical Service or Sikaflex Primer Technical Data Sheet for additional information on priming. Mixing Pour entire contents of Component 'B' and (1) 1/2 pint unit of Sikaflex-2c NS TG Component into pail of Component 'A'. For tint base: add entire contents of Color-pak into pail and mix with a low-speed drill (400-600 rpm) and Sikaflex paddle. *Mix for 3-5 minutes to achieve a uniform color and consistency. Scrape down sides of pail periodically. Avoid entrapment of air during mixing. *For pre-pigmented limestone base: just mix with low speed drill and Sikaflex paddle without Color-pak. Application Recommended application temperatures 40°-100°F. Pre-conditioning units to 65-75°F is necessary when working at extremes. Move pre-conditioned units to work areas just prior to application. Apply sealant only to clean, sound, dry, and frost-free substrates. Sikaflex-2c NS TG should be applied into joints when joint slot is at mid-point of its designed expansion and contraction. To place NS TG, load directly into bulk gun or use a follower plate loading system. Place nozzle of gun into bottom of joint and fill entire joint. Keeping the nozzle deep in the sealant, continue with a steady flow of sealant preceding the nozzle to avoid air entrapment. Avoid overlapping of sealant to eliminate entrapment of air. Tool as required. Proper design is 2:1 width to depth ratio. Tooling and Finishing Tool as required. Proper design is 2:1 width to depth ratio. Uncured material can be removed with xylene. Strictly follow solvent manufacturer's warnings and instructions Removal for use. Cured material can only be removed mechanically. In case of spillage, wear suitable protective equipment, collect with absorbent materials and dispose of in accordance with current, applicable local, state, and federal regulations. Allow 3-day cure before subjecting sealant to total water immersion and prior to painting. **Over Painting** Limitations

The ultimate performance of Sikaflex 2c NS TG depends on good joint design and proper application. Sealant depth for horizontal joint subject to traffic must be 1/2 in

Maximum expansion and contraction should not exceed 25% of average joint width.

Protect Sikaflex-2c NS TG Component from moisture. Use entire contents of container.

■ Maximum addition rate of TG Component is (1) 1/2 pint container/unit of Sikaflex-2c NS.

Do not cure in the presence of curing silicones.

Avoid contact with alcohol and other solvent cleaners during cure.

- Allow 3 day cure before subjecting sealant to total water immersion. Primer is required if sealant will be subjected to total water immersion.
- Do not apply when moisture vapor transmission exists since this can cause bubbling within the sealant.
- Avoid over-mixing sealant.
- White color tends to yellow over time when exposed to ultraviolet rays.
- When over-coating: an on-site test is recommended to determine actual compatibility and adhesion.
- The depth of sealant in horizontal joints subject to traffic is 1/2 in.
- Avoid exposure to high levels of chlorine. (Maximum continuous level is 5 ppm).
- Do not tool with detergent or soap solutions.
- Do not use in contact with bituminous/asphaltic materials

PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE-PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE

KEEP CONTAINER TIGHTLY CLOSED, KEEP OUT OF REACH OF CHILDREN, NOT FOR INTERNAL CONSUMPTION, FOR INDUSTRIAL LISE ONLY FOR PROFESSIONAL LISE ONLY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart-ment at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product us

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTSARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.

Visit our website at usa.sika.com

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Regional Information and Sales Centers. For the location of your nearest Sika sales office, contact your regional center Sika Corporation 201 Polito Avenue Lyndhurst, NJ 07071 Phone: 800-933-7452 Fax: 201-933-6225

Sika Canada Inc. 601 Delmar Avenue Pointe Claire Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792 1-800-933-SIKA NATIONWIDE

Sika Mexicana S.A. de C.V. Carretera Libre Celaya Km. 8.5 Fracc. Industrial Balvanera Corregidora, Queretaro **RESPONSIBLE CARE** C.P. 76920 Phone: 52 442 2385800



Sikaflex[®]-2c SL

Two-component, self-leveling, polyurethane elastomeric sealant

		t, premium-grade, polyurethane-based, elastomeric sealant. It is principally a consistency. Meets ASTM C-920, Type M, Grade P, Class 25, use T, NT, M, G n TT-S-00227E, Type 1, Class A.
	Ideal for horizontal applicationPlaceable at temperatures as	s low as 40°F. commonly found in construction.
g	 High elasticity with a tough, du Exceptional cut and tear resis Exceptional adhesion to most Available in 35 architectural co Color uniformity assured via C 	alant to be placed in non-moving joints exceeding 1/2 in. in depth. durable, flexible consistency. stance. t substrates without priming. colors. Color-pak system. imestone Gray (no Color-pak needed). sy to apply in horizontal joints.
Packaging	1.5 gal. unit. 3 gal. units. Color-pa	ak is purchased separately. Limestone Gray color available pre-pigmented.
	RESULTS MAY DIFFER BASED UPC	 and curing conditions 73°F (23°C) and 50% R.H.) ON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, ETHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. One year in original, unopened containers. Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using. A wide range of architectural colors are available. Special colors available on request. 40° to 100°F, ambient and substrate temperatures. Sealant should be installed when joint is at mid-range of its anticipated movement.
	Service Range	-40° to 170°F (-40°-75°C).
	Curing Rate (ASTM C-679)) Tack-free Time 6-8 hrs. Final Cure 3 days
	Application LifeTT-S-00227	7E 4 hrs.
	Tear Strength ASTM D-624	
	Shore A Hardness ASTM D Tensile Properties (ASTM I Tensile Strength at Bre Tensile Elongation Stress at 100%	D412)
		ec. TT-S-00227E) el Strength % Adhesion Loss 30 lb. Zero
	Weathering Resistance	Excellent
		od resistance to water, diluted acids, diluted alkalines, and residential vage. Consult Technical Service for specific data.



AID

Coverage	1 ga	llon: Yield	in Linear	r feet		
)epth	1/4"	3/8"	1/2"	
		1/4"	, 307.9	.,.		
		3/8"	205.3	136.8		
		1/2"	153.9	102.6	77.0	
	Width					
	Wie	3/4"	102.6	68.4	51.3	
		1"			38.5	
		1.25"			30.8	
		1.5"			25.7	
	pour mec useo Prim imm	nd resic chanical d in bot ning is f nersion eeded.	dues, a l mear tom of typical after c	and any ns. A ro joint to ly not i cure. To	y other oughen o preve necess esting	ean, sound, and frost-free. Joint walls must be free of oils, grease, curing com- foreign matter that might prevent bond. Ideally this should be accomplished by led surface will also enhance bond. Bond breaker tape or backer rod must be ent bond. ary. Most substrates only require priming if sealant will be subjected to water should be done, however, on questionable substrates, to determine if priming Service or Sikaflex Primer Technical Data Sheet for additional information on
Mixing	Pou mix cons with	r entire with a lo sistency tint bas	ow-spe 2. Scrap se. Not	eed drill be dow te: Whe	l (400-6 n sides en mixi	nent 'B' into pail of Component 'A'. Add entire contents of Color-pak into pail and 600 rpm) and Sikaflex paddle. * Mix for 3-5 minutes to achieve a uniform color and of pail periodically. Avoid entrapment of air during mixing. Color-pak must be used ng 3 gal. unit, two containers of Component B and two color-paks must be used. base, just mix with low speed drill and Sikaflex paddle (no Color-pak needed).
	ing a sour its d flow syst cont	at extre nd, dry, lesigned and lev em. Pla	mes. N and fr d expa vel as i ace no ith a s	Nove p ost-fre insion necess zzle of teady	re-cone e subs and co ary. If f gun ir flow of	peratures 40°-100°F. Pre-conditioning units to 65-75°F is necessary when work- ditioned units to work areas just prior to application. Apply sealant only to clean, trates. Sikaflex-2c should be applied into joints when joint slot is at mid-point of ntraction. To place, pour or extrude the SL grade in one direction and allow it to extruding, load mixed sealant directly into bulk gun or use follower plate loading nto bottom of joint and fill entire joint. Keeping the nozzle deep in the sealant, sealant preceding nozzle to avoid air entrapment. Also, avoid overlapping of air.
						nsion should allow for 1/4 inch minimum and 1/2 inch maximum thickness for vidth to depth ratio.
f	for ι	use. Cu	ired m	aterial	can o	ved with xylene. Strictly follow solvent manufacturer's warnings and instructions nly be removed mechanically. For spillage, collect, absorb, and dispose of in cable local, state, and federal regulations.
		Ainimun Aaximuu Do not c Avoid cc Allow 3 (subjecte Avoid cv Void cv Void cv Void cv Void co Vhite cc Light col Vhen ov Rigid pa sion or c The min	n dept m expa- cure in ontact day cue d to to consumation apply v ver-mix blor ter lors ca vercoa ints, c contrac imum	h in wo ansion the pro- with al- tre befo bal wa e to high when m king se nds to ny yello ating: a oatings ction. depth	orking j and co esence cohol a ore sub ter imm gh leve oisture alant. yellow wif ex n on-sis s or pri of seal	If Sikaflex-2c, depends on good joint design and proper application. oint is 1/4 in. ontraction should not exceed 25% of average joint width. e of curing silicones. and other solvent cleaners during cure. ojecting sealant to total water immersion. Primer is required if sealant will be nersion. els of chlorine. (Maximum level is 5 ppm). e vapor transmission exists since this can cause bubbling within the sealant. slightly when exposed to ultraviolet rays. posed to direct gas fired heating elements. te test is recommended to determine actual compatibility. mers will crack when placed over elastomeric sealants experiencing expan- ant in horizontal joints subject to traffic is 1/2 inch. or soap solution.
INSTRU SHEET PARTMI TO REA <u>RENT P</u> KEEP COI For furtl actual S	ICTIO WHI ENT AD A PROE NTAIN	ONS ON ICH ARE AT 800. ND FOL DUCT DA IERTIGHTL nformatic y Data Sho	A THE E AVAII .933.74 .LOW 1 ATA SH Y CLOSE on and a eets cor	PRODU LABLE 52 NOT THE WA IEET, P D. KEEP O advice ro ntaining	ONLIN ONLIN HING (RNING RODU(UT OF RE/ egarding physical	RODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA E AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE- CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION IS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR- CT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE. ACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY. It transportation, handling, storage and disposal of chemical products, users should refer to the I, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet cy, call CHEMTREC at 1.800-424-9300, International 703-527-387.
Prior to Data Sh ment at for each product SIKA wa the curre Buyer's SHALL N THE USE SHALL N	each leet, p 800-S n Sika t use. arran rent P sole SS OI NOT E OF DF SI	ts this product la 933-7452. a product ts this pr roduct D remedy s R IMPLIE BE LIABL THIS PRC	ny Sika p abel and Nothing t as set oduct for ata Shea shall be D SHAL E UNDE DDUCT I DUCTS	oroduct, I Safety I g contain forth in 1 or one ye et if used limited to L APPLY ER ANY L N A MAN	the user Data She ned in ar the curre ear from d as diree the pur 'INCLUE LEGAL T NER TO	rmust always read and follow the warnings and instructions on the product's most current Product bet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart- ity Sika materials relieves the user of the obligation to read and follow the warnings and instruction on the product Data Sheet, product label and Safety Data Sheet prior to date of installation to be free from manufacturing defects and to meet the technical properties on cted within shelf life. User determines suitability of product for intended use and assumes all risks. chase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES SING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA HEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY
R Region Sik 20° Lyr Pho	al In al In a Co Pol ndhui one:	ebsite at	usa.sik on and s on Je 7071 -7452	Sales C	Sika Ca 601 Delr Pointe C Quebec Phone: {	1-800-933-SIKA NATIONWIDE For the location of your nearest Sika sales office, contact your regional center. Sika Mexicana S.A. de C.V. mar Avenue Sika Mexicana S.A. de C.V. laire Fracc. Industrial Balvanera H9R 4A9 Corregidora, Queretaro 514-697-2610 Phone: 52 442 2385800 Fax: 52 442 2250537 Sika and Sikaflex are registered trademarks.

Sikaflex[®] Textured Sealant

One-component, all purpose, polyurethane sealant

Description		
	elastomeric sealant capab	is a moisture-cured, 1-component, polyurethane-based, non-sag le of ±25% joint movement. Meets Federal specification TT-S- Meets ASTM C-920, Type S, Grade NS, Class 25.
Where to Use	 Suitable for vertical and Has many applications cients of expansion. Ideal for: Weatherproofing of crete or metal frame 	of joints where maximum depth of sealant will not exceed ½ inch. I horizontal joints; readily placeable at 40°F (4°C). as an elastic sealant between materials with dissimilar coeffi- joints between brickwork, blockwork, masonry, wood and con- es. onies, around window or door frames.
Advantages	 Textured appearance b Hides imperfections fro Excellent resistance to Non-staining. Paintable with water-, o High elasticity – cures to tear-resistance. Stress relaxation. 	il- and rubber-based paints. o a tough, durable, flexible consistency with exceptional cut and
	Oreinane-based, sudde	
Packaging		ested by EPA for radon reduction. Disture-proof composite cartridges, 24/case.
Packaging	Disposable 10.1 fl. oz., mo Typical Data (Materia RESULTS MAY DIFFER BASED UP	
Packaging	Disposable 10.1 fl. oz., mo Typical Data (Materia RESULTS MAY DIFFER BASED UP	bisture-proof composite cartridges, 24/case.
Packaging	Disposable 10.1 fl. oz., mo Typical Data (Materia RESULTS MAY DIFFER BASED UP TEMPERATURE, APPLICATION ME	al and curing conditions @ 73°F (23°C) and 50% R.H.) ON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, ETHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.
Packaging	Disposable 10.1 fl. oz., mo Typical Data (Materia RESULTS MAY DIFFER BASED UP TEMPERATURE, APPLICATION ME Shelf Life	 bisture-proof composite cartridges, 24/case. and curing conditions @ 73°F (23°C) and 50% R.H.) on STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, ETHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. 12 months Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F
Packaging	Disposable 10.1 fl. oz., mo Typical Data (Materia RESULTS MAY DIFFER BASED UP TEMPERATURE, APPLICATION ME Shelf Life Storage Conditions	 al and curing conditions @ 73°F (23°C) and 50% R.H.) on statistical variations depending upon Mixing Methods and Equipment, Ethods, Test Methods, actual site conditions and curing conditions. 12 months Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F (18°-24°C) before using.
Packaging	Disposable 10.1 fl. oz., mo Typical Data (Materia RESULTS MAY DIFFER BASED UP TEMPERATURE, APPLICATION ME Shelf Life Storage Conditions VOC Content Standard Colors	 and curing conditions @ 73°F (23°C) and 50% R.H.) on statistical variations depending upon Mixing Methods and Equipment, ethods, test methods, actual site conditions and curing conditions. 12 months Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F (18°-24°C) before using. 40 g/L
Packaging	Disposable 10.1 fl. oz., mo Typical Data (Materia RESULTS MAY DIFFER BASED UP TEMPERATURE, APPLICATION ME Shelf Life Storage Conditions VOC Content Standard Colors	 al and curing conditions @ 73°F (23°C) and 50% R.H.) on statistical variations depending upon Mixing Methods and Equipment, Ethods, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. 12 months Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F (18°-24°C) before using. 40 g/L White, aluminum gray, limestone, dark bronze, buff and stone. re 40° to 100°F (4°-38°C). Sealant should be installed when
Packaging	Disposable 10.1 fl. oz., mo Typical Data (Materia RESULTS MAY DIFFER BASED UP TEMPERATURE, APPLICATION ME Shelf Life Storage Conditions VOC Content Standard Colors Application Temperatur	 al and curing conditions @ 73°F (23°C) and 50% R.H.) on statistical variations depending upon Mixing METHODS and Equipment, ETHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. 12 months Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F (18°-24°C) before using. 40 g/L White, aluminum gray, limestone, dark bronze, buff and stone. re 40° to 100°F (4°-38°C). Sealant should be installed when joint is at midrange of its anticipated movement.
Packaging	Disposable 10.1 fl. oz., mo Typical Data (Materia RESULTS MAY DIFFER BASED UP TEMPERATURE, APPLICATION ME Shelf Life Storage Conditions VOC Content Standard Colors Application Temperatur Service Range	 al and curing conditions @ 73°F (23°C) and 50% R.H.) ON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, ETHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. 12 months Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F (18°-24°C) before using. 40 g/L White, aluminum gray, limestone, dark bronze, buff and stone. re 40° to 100°F (4°-38°C). Sealant should be installed when joint is at midrange of its anticipated movement. -40° to 170°F (-40°-77°C)
Packaging	Disposable 10.1 fl. oz., mo Typical Data (Materia RESULTS MAY DIFFER BASED UP TEMPERATURE, APPLICATION ME Shelf Life Storage Conditions VOC Content Standard Colors Application Temperatur Service Range Curing Rate Shore A Hardness Adhesion in Peel (ASTM	 and curing conditions @ 73°F (23°C) and 50% R.H.) ON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, THODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. 12 months Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F (18°-24°C) before using. 40 g/L White, aluminum gray, limestone, dark bronze, buff and stone. 40° to 100°F (4°-38°C). Sealant should be installed when joint is at midrange of its anticipated movement. -40° to 170°F (-40°-77°C) Tack-free time: <6 hrs. Final cure: 7 days 35±5
Packaging	Disposable 10.1 fl. oz., mo Typical Data (Materia RESULTS MAY DIFFER BASED UP TEMPERATURE, APPLICATION ME Shelf Life Storage Conditions VOC Content Standard Colors Application Temperatur Service Range Curing Rate Shore A Hardness Adhesion in Peel (ASTM	 a) and curing conditions @ 73°F (23°C) and 50% R.H.) ON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, ETHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. 12 months Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F (18°-24°C) before using. 40 g/L White, aluminum gray, limestone, dark bronze, buff and stone. re 40° to 100°F (4°-38°C). Sealant should be installed when joint is at midrange of its anticipated movement. -40° to 170°F (-40°-77°C) Tack-free time: <6 hrs. Final cure: 7 days 35±5 M C-794) 920. Aluminum: Meets ASTM C-920. Glass: Meets ASTM C-920



Coverage		10.1	oz Cartrio	dge: Yield	in Linear	feet	
			Depth	1/4"	3/8"	1/2"	
			1/4"	24.3			
			3/8"	16.2	10.8		
			1/2"	12.1	8.1	6.1	
		Width	3/4"	8.1	5.4	4.0	
			1"			3.0	
			1.25"			2.4	
			1.5"			2.0	
How to Use	`	<u> </u>					J
Surface Prepar	•	othe		aminar	nts. A r	ougher	must be sound, clean, dry, frostfree, and free of oil and grease and an red surface will also enhance bond Install bond breaker tape or backer joint.
Priming		whe	ere sea	lant wi	ll be su	ubjecte	ary. Most substrates only require priming if testing indicates a need on d to water immersion after cure. Consult Sikaflex Primer Technical Dat additional information on priming.
Application	iching	unit ant Plac on sea	s at app should ce nozz with a lant to	oroxima be gur zle of g steady elimina	ned in un into flow c ate enti	0°F (21 to joint bottor of seala rapmer	nperatures: 40°-100°F (4°-38°C). For cold weather application, conditio °C); remove prior to using. For best performance, Sikaflex Textured Sea when joint slot is at mid-point of its designed expansion and contractior m of the joint and fill entire joint. Keep the nozzle in the sealant, continu ant preceding the nozzle to avoid air entrapment. Avoid overlapping of the of air.
Tooling and Fir	lisning	allo dep	w for 1. th ratio	/4 inch	minim	um an	tact with joint walls and remove air entrapment. Joint dimension shoul d 1/2 inch maximum thickness for sealant. Proper design is 2:1 width t
Removal		call		pillage	, collec		ved with approved solvent. Cured material can only be removed mechan orb, and dispose of in accordance with current, applicable local, state, an
			Maxim Do not Avoid o Do not this cal Use op When Since s White Light c the for The ull and pro Do not	um exp cure in contact apply n caus bened of applyir system color te bolors c mation timate oper ap tool w	bansion the p t with a when i e bubb cartridg ng seal is moi ends to an yell of initi perforr oplicati ith dete	n and c resence alcohol moistur ges the ant, av isture-c y yellow ow slig al skin. nance on with ergent	t must not exceed 1/2 in.; minimum depth is 1/4 in. contraction should not exceed 25% of average joint width. e of curing silicone sealants. and other solvent cleaners during cure. re-vapor-transmission condition exists from the substrate as thin the sealant. same day. roid air-entrapment. cured, permit sufficient exposure to air. v slightly when exposed to ultraviolet rays. htty if exposed to direct gas fired heating elements prior to of Sikaflex Textured Sealant depends on good joint design n joint surfaces properly prepared. or soap solutions. bituminous/asphaltic materials.
	INSTRUCTIO SHEET WHI PARTMENT TO READ A RENT PROD	ONS CH A AT 8 ND F DUC1	ON THI ARE AV/ 00.933. OLLOW DATA	E PROE AILABL 7452 NG / THE V SHEET,	DUCT'S E ONL DTHING VARNIN PROD	MOST INE AT CONT IGS AN UCT LA	ICT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DAT, HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE AINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATIOI ID INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR ABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE. HILDREN. NOTFOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY.
	actual Safety D before using th Prior to each u	oata S he pro	heets co oduct. In any Sika	ntaining case of (product,	physica emergen the use	l, ecolog icy, call (r must al	ortation, handling, storage and disposal of chemical products, users should refer to the lical, toxicological and other safety related data. Read the current actual Safety Data Sher CHEMTREC at 1-800-424-9300, International 703-527-3887. ways read and follow the warnings and instructions on the product's most current Produc h are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depar
	ment at 800-93 for each Sika p product use.	3-745 produ	2. Nothin ct as set	g contai forth in	ned in a the curre	ny Sika n ent Prod	naterials relieves the user of the obligation to read and follow the warnings and instructic uct Data Sheet, product label and Safety Data Sheet prior to
	the current Pro Buyer's sole re EXPRESS OR I SHALL NOT BE THE USE OF TH	oduct medy IMPLI E LIAE HIS PF A PR	Data She shall be ED SHAL SLE UNDI CODUCT I	et if used limited to L APPLY ER ANY I IN A MAN	d as dire o the pur (INCLUI LEGAL T INER TO	cted with rchase p DING AN HEORY INFRING	installation to be free from manufacturing defects and to meet the technical properties o nin shelf life. User determines suitability of product for intended use and assumes all risk rice or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIE Y WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIK FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FO SE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR B
	Visit our web Regional Info Sika Cor 201 Polito	rmati porat	on and ion	Sales C	Sika Ca	For the I nada In mar Ave	

Cti Constru



201 Polito Avenue Lyndhurst, NJ 07071 Phone: 800-933-7452 Fax: 201-933-6225

Control Contro

Carretera Libre Celaya Km. 8.5 Fracc. Industrial Balvanera Corregidora, Queretaro C.P. 76920 Phone: 52 442 2385800 Fax: 52 442 2250537

, see RESPONSIBLE CARE ISO 9001 RC 14001

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Product Data Sheet Edition 5.11.2016 Sikasil WS-290

Sikasil[®] WS-290

SEALANT-WATERPROOFING & RESTORATION INSTITUTE Issued to: Sike Corporation Predeut: Sikesi" WS-200 C719: Pass _/ Ext:+100% Comp:-50% Substrate: Mortar, Aluminum, Glass C661: Rating 12 Validation Date: 3/28/12 – 3/27/17 No. 312-SiK317 Copyright © 2012 SEALANT VALIDATION www.swrionline.org

Ultra low modulus, neutral cure silicone sealant

Description		
	Sikasil WS-290 is a one-part, neutral-curing, ultra low-mo durable, flexible building sealant Sikasil WS-290 perform its ultra-low modulus, high extension/compression, recov materials. Sikasil WS-290 accommodates long-term mov- particularly well suited for use in Exterior Insulation Finis C-920, Type S, Grade NS, Class 100/50, Use NT, M, G, A Class A; CAN/CGSB-1 9.1 3-M87, AAMA 808.3	is exceptionally well under dynamic conditions due to very properties and strong adhesion to most building rement of +100-50% in properly designed joints and is sh Systems (EIFS). Meets the requirements of ASTM
Where to Use	 Sealing expansion and control joints in precast concol As a weatherseal in glass to glass butt joint glazing. As a weatherseal in both conventional glazing and st and heel beads. Exterior Insulation Finish Systems (EIFS) and numer ant. 	tructural glazing* applications, including cap, toe
Advantages	 Unaffected by most atmospheric conditions Non-staining Joint movement +100/-50% Excellent adhesion One-component Excellent gunnability in all temperatures Ultra low Modulus 	
Packaging	10.1 fl.oz. (.300 ml) plastic cartridges, 20 fl.oz. (.592 ml) sa	usages, 2 gal. (7.57 L) pails
	Shelf Life 12 months in original unopened Storage Conditions Store in unopened containers VOC Content 29 g/l Uncured Properties at 77°F (25°C). 50% R.H. Tool Time (Initial Skin) Cure Time Flow, Sag, Slump	ed cartridges. at temperatures lower than 80°F (27°C). 30 minutes, (higher temperatures and/or humidity will shorten this time) 7-14 days
	Full Adhesion Tack Free Time	none 7-14 days 50 minutes



Coverage	10.1	oz Cartri	dge: Yield	in Linear	feet	ļ	20 0	oz Sausag	e: Yield ir	n Linear fe	et	ļ	1 ga	llon: Yield	l in Linea	r feet	
)epth	1/4"	3/8"	1/2"			Depth	1/4"	3/8"	1/2"	ļ		lepth	1/4"	3/8"	1/2"
		1/4"	24.3					1/4"	48.1			ļ		1/4"	307.9		
		3/8"	16.2	10.8		1		3/8"	32.1	21.4		ļ		3/8"	205.3	136.8	
	_	1/2"	12.1	8.1	6.1]	_	1/2"	24.1	16.0	12.0	ļ		1/2"	153.9	102.6	77.0
	Width	3/4"	8.1	5.4	4.0		Width	3/4"	16.0	10.7	8.0		width	3/4"	102.6	68.4	51.3
		1"			3.0			1"			6.0		_	1"			38.5
		1.25"			2.4			1.25"			4.8			1.25"			30.8
		1.5"			2.0]		1.5"			4.0]		1.5"			25.7
How to Use Surface Preparation	coat POF NOP appr Sika	ings th ROUS S N-POR roved c sil WS-	at may SUBST OUS S comme 290 is	interfe RATES UBSTI rcial so designe	re with - clear RATES lvent. A ed to o	adhesi h by me – for c Allow so btain ad	ion. char lean olver dhes	nical me ing non nt to eva ion with	thods to porou aporate	o expos s subst e prior t e use o	e a sou rates, ι o seala f a prim	nd sur use two int app ner; ho	face o rag olicat weve	free of o wipe r ion. er, certa	contam nethod	ination using: strates	rs, paints and laitand xylene or may requ
Application	a pri mett The widt is 1/ non- poly than rod as s mov not l Rea beet to c	mer. Te nods. R numbe h at tin '2 inch -gassir ethylen joint v in horiz pring o vement be affe dy to u n compreate a	est by a efer to er of join (13mm (13mm ng poly ne bon vidth; d zontal or fall, before cted. se, app oleted. a conca	applying Technic Ints and Isstallati In) and olefin of d breal lo not c on grad and in e cure, ply usir Apply ave joir	the second secon	ealant a Sheet int widt e dept nimum n cell p e to pro ss mor t or wit design ause a essiona t using be and	nd/o for S h sh h of olyu ever re that ever the E. led f lesth al ca	r prime ikasil P ould be the sea 1/4 inch rethan at three an 40% I.F.S. V or move hetic iss	r sealar rimer 2 e desig alant sh o (6mm e back -sided b. Oper When in rement sues so gun. D	nt comb 100 and ned for nould b n). To c er rod. adhesi n cell sl nstallin greate uch as o not o ve pres	contact a maxime 1/2 the control on Clophould b g durine r than ripples pen pro	to corr the wice joint do the	nfirm nical of + ' th o lepth o doe ell b opre- e of %, t e se cont e se	results Servic 100 and f the jo acker r ssed 4 large to be awa alant s ainer u alant ir	and pi e for ad d -50% int. Th closed allow for od sho 0%. Do empera- re of ti urface ntil pre- nto the	roposed mover e maxi cell po or back ould be o not us ature s he sign . Perfo	d applicati informatic ment of jo mum dep blyethyler ker rod, u 25% larg se open c wings su ificant jo rmance v on work h fool seala
Limitations	in th ant s	e seala slightly Do not Do not	ant, cor conca allow s allow s	ntinue v ve usir sealant sealant	with a s ng dry-t t to cor t to cor	teady f ooling ne in c ne in c	flow tech onta	of seala niques Ict with	ant pre . Do no solver	ceding ot tool v		zzle to ap or o	avo leter	id air e gent a	entrapn nd wat	nent. To	o the nozz ool the se tions.
INS SHE PAR TO I	DR TO FRUCT ET WI TMEN READ	Sealan clean. Do not Not inte Not rec Do not Do not Do not Srass a Test se EACH TIONS C HICH A T AT 80 AND FO	t may I Contac apply ended comme apply temper reated and cop nsitive USE C DN THE RE AVA 00.933.7	be app be trech when s for stru- nded for to surfa to dam rature a wood for poper m substr DF ANY E PROE AILABL 7452 NO 7 THE W	nical S substra ictural or horiz aces th p or we and hu to age ay be <u>rates</u> , s SIKAT OUCT'S E ONLI OTHING VARNIN	low free ervice te tem glazing zontal et subs midity six mo discolo such as PRODU MOST NE AT CONT	for r pera yehi be p strate will e nths ored. s mir CT, CUF HTTI AINE D IN	more in tures a cular tr bainted es. extend before Test a ror bac THE US RENT P://USA D IN AN STRUC	aformat are belo affic. as sea tack fro apply pr ckings, ER MU PRODU SIKA.O NY SIKA. TIONS	ion. bw -20 alant su ee and cation. ior to a for cor UST ALV UCT DA COM/ O MATE FOR E/	ta she r by c rials i	bove will no ates. tion. tion. EET, PI CALLIN RELIE KA PR	130° t hol fore AND IG S VES ODU	F. d pain USE. FOLLC UCT LA IKA'S T THE US CT AS	DW THE ABEL A ECHNI SER OF SET FC	E WARI ND SA CAL SI THE O DRTH II	NINGS AN FETY DAT ERVICE D BLIGATIC I THE CU
For fi actua befor Data ment for ea SIKA the ci Buye EXPF SHAL THE U	urther i I Safety e using to each Sheet, I at 800- ach Sika warran urrent P r's sole ESS OI L NOT JSE OF	nformati / Data SI 1 the pro 1 use of a product 933-7452 a product ts this p Product I remedy R IMPLIE BE LIAB THIS PR	in and a neets con duct. In iny Sika label and 2. Nothin 2. Nothin	advice r ntaining case of o product, d Safety g contai forth in or one yo et if used limited t L APPLY ER ANY I IN A MAN	egarding physica emergen the user Data Shi ned in ai the curro ear from d as dire o the pui / INCLUI LEGAL T INER TO	g transpo I, ecolog cy, call (r must al eet which by Sika n ent Prod date of i cted with chase p DING AN HEORY INFRING	ortation ical, f CHEN ways h are naterion uct D instal nin sh rice o Y WA FOR S E ON	on, hand toxicolog ITREC a read and available ials reliev ata Shee lation to lelf life. L r replace RRANTY SPECIAL ANY PA	lling, sto gical and t 1-800-4 d follow f e online ves the u et, produ be free Jser dete ment of C OF CME OR COM FENT OR	and the warn of the warn at http:// iser of th ct label from ma mines s product RCHANT SEQUE SANY OT	d dispos afety rela ings and usa.sika e obligat and Safe nufactur suitability ABILITY NTIAL D. HER INTI	al of ch ated dat tional 7 l instruct. .com/ o tion to r oty Data ing defu y of pro re of lab OR FIT AMAGE ELLEC1	nemic a. Re 03-52 ctions r by c ead a Shee ects a duct or or NESS S. SII	al produ ad the cr. 7-3887. on the p alling S und follo at prior t not to m for inten cost of la 5 FOR A (A SHAL PROPEF	acts, use product's ika's Tec w the wa o product eet the t ded use abor. NO PARTICI LL NOT E RTY RIGH	ers shou ctual Saf s most c hnical S urnings a ct use. echnical and ass OTHER ULAR PU BE RESP ITS HEL	ONAL USE OF Id refer to ety Data Sh urrent Prod ervice Dep ind instruct properties umes all ris WARRANTI JRPOSE. SI ONSIBLE F D BY OTHEI
R Visit Regi	our we onal In Sika Co	ebsite a	t usa.sil on and on	ka.com Sales C		For the I nada In mar Ave	locati c.		ur neare Sika Carre	st Sika s Mexica etera Lib	ales offi na S.A. re Celay	1 ce, con de C.V.	-800 tact y	-933-SI	(A NATI	ONWID	G 201-933-88 E

Carretera Libre Celaya Km. 8.5 Fracc. Industrial Balvanera Corregidora, Queretaro C.P. 76920 Phone: 52 442 2385800 Fax: 52 442 2250537

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Sika and Sikasil are registered trademarks. Printed in Canada. Product Data Sheet Edition 5.12.2016 Sikasil WS-290 FPS



Sikasil[®] WS-290 FPS

Ultra low modulus, neutral cure, field pigmentable silicone sealant

Description	non-sag, elastomeric, ne dynamic conditions due t adhesion to most building in properly designed join Meets the requirements of Type II, Class A; TT-S-00	eutral cure silicone sealant. Sikasil to its ultra-low modulus, high extens g materials. Sikasil WS-290 FPS ac ts and is particularly well suited for of ASTM C-920, Type S, Grade NS, 01543A, Class A; CAN/CGSB-191	
Where to Use	 As a weatherseal in g As a weatherseal in g 	ontrol joints in precast concrete par glass to glass butt joint glazing nonstructural glazing applications, i nish Systems (EIFS) and numerous	
Application	 Field pigmentable se 	atmospheric conditions)0/-50% s color pack	
Packaging	Typical Data	c cartridges, 20 fl.oz. (.592 ml) sausag	ges, 2 gal. (7.57 L) pails
			SITE CONDITIONS AND CURING CONDITIONS.
	Shelf Life	12 months in original unopened c	artridges.
	Storage Conditions	Store in unopened containers at t	emperatures lower than 80°F (27°C).
	Colors	White, Colonial White, Aluminum, Custom colors available on reque	Limestone, Black, Bronze, Medium Bronze. st.
	VOC Content	29 g/L	
	Uncured Properties a	at 77°F (25°C), 50% R.H.	
	Tool Time (Initial Ski	n)	30 minutes (higher temperatures and/or humidity will shorten this time)
	Cure Time		7-14 days
	Flow, Sag, Slump		no sag
	Full Adhesion		7-14 days
	Tack Free Time		50 min.
	Cured Properties after	<u>er 7 days at 77°F (25°C), 50% R.H</u>	
	Dynamic Movement	Capability (ASTM C-719)	+100%, -50%
	Elongation (ASTM D	-412)	1000%
	Shore A Hardness (A	STM C-661)	12
	Ozone/UV Resistance	· · · · · · · · · · · · · · · · · · ·	Excellent
	Peel Strength (ASTM	l C-794)	20-40 pli
	Staining, Color Chan	• • •	none
	-	Substrates (ASTM C-1248)	no staining
	Stress @ 100% (AST	·	42 psi (0.29 MPa)
	Service Temperature	•	-80°F to 350°F
	Tensile Strength (AS	IM D-412)	165 psi (1.14 MPa)



Coverage	10.1	l oz Cartrio	dge: Yield	in Linear	feet	1	20 c	z Sausag	e: Yield ir	Linear f	et	ļ	1 ga	llon: Yiel	d in Linea	r feet	
	[Depth	1/4"	3/8"	1/2")epth	1/4"	3/8"	1/2")epth	1/4"	3/8"	1/2"
		1/4"	24.3]		1/4"	48.1]		1/4"	307.9		
		3/8"	16.2	10.8]		3/8"	32.1	21.4				3/8"	205.3	136.8	
		1/2"	12.1	8.1	6.1]	_	1/2"	24.1	16.0	12.0			1/2"	153.9	102.6	77.0
Priming Application Tooling & Finishin Limitations	Width	3/4"	8.1	5.4	4.0]	Width	3/4"	16.0	10.7	8.0]	Width	3/4"	102.6	68.4	51.3
		1"			3.0]	 ^	1"			6.0]	>	1"			38.5
		1.25"			2.4]		1.25"			4.8			1.25"			30.8
		1.5"			2.0	1		1.5"			4.0]		1.5"			25.7
How to Use Surface Preparation	coat POF NON	ings tha ROUS S N-POR	at may SUBSTF SUS SI	interfei RATES UBSTF	re with – clear RATES	y, frost adhesio by meo – for clo llow so	on. chan eani	ical me ng non	thods to -porous	expos s subst	e a sou rates, u	nd sur	face f o rag	free of c wipe n	ontami	nation a	and lait
Priming	Sika may prop	asil WS / requir	-290 F e a pri applica	PS is o mer. Te tion me	design est by ethods	ed to o applyin . Refer	btair ig th	n adhe e seala	sion wi ant and	ithout t d/or pri	he use mer se	of a alant	prim com	er; hov binatic	on to co	onfirm	results
	is 1/ non- poly thar rod as s mov not Rea been to c	/2 inch -gassin rethyler joint w in horiz pring c rement be affe- idy to u n comp	(13mm g polya ne bona vidth; da contal co r fall, a before cted. se, app oleted. conca	n) and olefin of d break o not c on grac and in a cure, oly usin Apply s ve joir	the mi or oper cer tap ompre de joint joints may c ng profe sealan nt shap	e depth nimum n cell po e to pre ss morr t or with designo ause a essiona t using be and	is 1 olyun even e tha h E.l ed fo esth al ca con	/4 inch rethand t three an 40% I.F.S. V or mov etic iss ulking s sistent	a (6mm e backe -sided 5. Oper Vhen ir ement sues su gun. De , positi	i). To c er rod. adhesi n cell sl nstallin greate uch as o not o ve pres	ontrol j If joint on. Clo nould b g durin er than ripples pen pro	joint d depth bsed c e com g time ± 25 in the oduct o o force	lepth doe ell b npres e of l %, b e sea conta	i, use o es not a acker r ssed 40 large to be awa alant s ainer u alant ir	closed allow fo od sho 0%. Do empera re of th urface. ntil pre	cell po or back uld be not us ature s be sign Perfor paratic joint. T	lyethyl er rod, 25% la e oper wings ificant mance on work ool sea
Tooling & Finishing	All jo nozz in th ant s	oints sh zle of th e seala slightly	nould b le gun i int, con concav	e mas nto bol tinue v /e usin	ked to ttom of vith a s g dry-t	ensure joint ar teady fi ooling t	nd fill low o echi	entire of seala niques	joint m ant pre Do no	aking o ceding t tool v	the no: vith soa	te con zzle to ap or o	tact avo	with joi id air e	nt sides ntrapm	s. Keep ient. To	o the no ool the s
Limitations		Do not Not inte Sealan clean. Do not Not inte Not rec Do not Do not Lower 1 Allow tr Brass a	allow sended 1 t may b Contact apply t apply t apply t temper reated and cop	sealant for imn be app t Tech when s for strunded for so surfa to dam ature a wood to pper m	t to cornersion lied be nical S substra ictural or horiz aces th p or we and hu to age ay be	ne in cone in cone in cone in cone low freervice in the temp glazing zontal vill let subs midity vill six mon discolo such as	onta ezin for n pera vehic be p trate will e nths red.	ct with g temp nore in tures a cular tr ainted es. extend before Test a	curing perature format are belo affic. as sea tack fre applic pply pr	polyur es if su ion. ow -20 Ilant su ee and ation. ior to a	ethane Ibstrate °F or a Irface v cure r	e seal es are bove will no ates. tion.	t com 130° t hol	npletely F. d pain	y dry, fr	ost fre	e and
INS SH PAI TO RE KEEP For 1 actu: befo Data meni for e SIKA the c Buys EXPI SHA THE	TRUCT EET W RTMEN READ NT PRO CONTAIN further in al Safety re using r to each Sheet, p t at 800-4 ach Sika warran current P er's sole RESS OI LL NOT USE OF	TIONS (HICH A IT AT 80 AND F(DDUCT URE TIGHTI Information of Data Shot the product I 933-7452 a product I 933-7452 B product I 934-7452 B product I 945 B prod	DN THE RE AVA 00.933.7 DLLOW DATA S Y CLOSEI on and a events com duct. In c ny Sika p abel and . Nothing t as set f oduct fo oata Shee shall be I D SHALL E UNDE DDUCT II	PROE ILABL 452 NC THE V SHEET, 0. KEEP O dvice re tataining asse of e product, Safety I g contain for the ye ti fusec imited to LAPPLY RANY L NAMAN	DUCT'S E ONLI DTHING VARNIN PRODI UT OF RE agarding physical amergen the user Data She ned in ar the user Data She ned in ar the curre ar from d as dired o the pur / INCLUE LEGAL T NER TO	PRODU MOST INE AT I 5 CONT/ IGS ANI/ IGS ANI/ ICT LA ACHOF CH I transpo I, ecologi cy, call C must alve est which by Sika m ant Produ date of in cted with cteds with cteds with cteds with ECRY F INFRING ANI	CÚF HTTI AINE D IN BEL UILDRE vrtatic ical, t CHEM ways a are a ateria uct Da nstall in sh ice on Y WAI COR S E ON	RENT P://USA D IN AN STRUC AND S N.NOTFC m, hand oxicolog TREC at read ance available als relieve ation to elf life. Ur replace RRANTY PECIAL ANY PAI	PRODU SIKAC NY SIKA TIONS AFETY DRINTERN ling, sto jical and 1-800-4: I follow t online a ves the u t, product be free f iser dete ment of f OR KEN OR CON	JCT DA COM/ C MATE FOR E. DATA S IAL CONS rage and other size 24-9300, he warning the this set of the set of the the this set of the	TA SHE PR BY C RIALS ACH SII SHEET UMPTION. d dispos affety relat Internat usa.sika. e obligat and Safe nufacturis uitability exclusive ABILITY NTIAL D/ HER INTI	ET, P CALLIN RELIE KA PR PRIOF FOR IND al of cl tited dat ional of cl tited data ional of cl tional of cl tited data ional of cl	ROD NG S VES ODU TO UUSTRI nemicca. Rei 03-52 ctions r by c r by c r by c sead a shee ects a f duct f or or c NESS S. S. Iki r	UCT LA IKA'S T THE US CTAS PRODU AL USE OI al produ ad the cu 7-3887. on the p alling Si nd follow t priot to md to me for inten- cost of las S FOR AI (A SHAL PROPER	ABEL A ECHNIC SER OF SET FC JCT US VLY.FOR P Ints, use irrent action with water oproduct's ka's Tecl with water oproduct's ka's Tecl with the fate ded use of bor. No PARTICU L NOT B TTY RIGH	ND SA CAL SE THE O DRTH IN SE. ROFESSI rs shou tual Safe most cu hnical Se rnings a ct use. chnical se rnings a ct use. chnical Se rnings a ct use. chnical Se rnings a ct use.	FETY D ERVICE BLIGAT N THE C DNALUSE Id refer t tyty Data S intrent Pro- ervice De- nd instru- properti- umes all in WARRAN RPOSE. DNSIBLED D BY OTH
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Reg	ional In Sika Co 201 Pol Lyndhu		on and Son ue 7071	Sales Co	Sika Ca 601 Delr Pointe C	For the lo nada Inc mar Aver Claire H9R 4A9	a. nue	on of you	Sika Carre Fraco	Mexicar tera Lib . Indust	ales offic na S.A. (re Celay rial Balva Quereta	ce, con d e C.V. a Km. 8 anera	tact y				

Sika Corporation 201 Polito Avenue Lyndhurst, NJ 07071 Phone: 800-933-7452 Fax: 201-933-6225

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Product Data Sheet Edition 5.13.2016 Sikasil WS-295

Sikasil[®] WS-295

SEALANT · WATERPROOFING & RESTORATION INSTITUTE Issued to: Sika Corporation Product: Sikasil® WS-295 C719: Pass 🖌 Ext:+50% Comp:-50% Substrate: Mortar, Aluminum, Glass C661: Rating 25 Validation Date: 4/3/12 - 4/2/17 No. 412-SIK417 Copyright © 2012 SEALANT VALIDATION

Neutral cure, weather sealing silicone sealant

Description	on a wide variety of mate	erials. Meets the requirements of 230C, Type II, Class A; CAN/CO	e in most common weatherproofing applications f ASTM C-920, Type S, Grade NS, Class 50, Use GSB-19.13-M87, AAMA 802.3 Type II, AAMA 803.3,						
Where to Use	 As a weatherseal in by heel beads As a weatherseal in gi Sealing expansion and Perimeter sealing of d Adhering stiffeners to 	lass to glass butt joint glazing d control joints in precast concr loors, windows and other buildir	ructural glazing* applications, including cap, toe and ete panels and metal curtain walls.						
Advantages	 Versatile medium mod Unaffected by most at Non-staining Joint movement ±50% Excellent adhesion One-component Excellent gunnability i 	mospheric conditions							
Packaging	10.0 fl.oz. (295 ml) cartride	ge, 20 fl.oz. (600 ml) sausage							
	Typical Data								
			DEPENDING UPON MIXING METHODS AND EQUIPMENT, JAL SITE CONDITIONS AND CURING CONDITIONS.						
	Shelf Life	12 months in original unopene	ed cartridges.						
	Storage Conditions	Store in unopened containers	at temperatures lower than 80°F (27°C).						
	Colors	White, Colonial White, Alumin	um, Limestone, Black, Bronze, Medium Bronze						
	VOC Content	VOC Content 37 g/L							
	Unaurad Proportion	A 77°E (25°C) 50% ₽ U							
		a <u>t 77°F (25°C), 50% R.H.</u>	20.20 minutes						
	Tool/Work Time (Initi		20-30 minutes						
	Cure Time (ASTM C-		7-14 days						
	Flow, Sag, Slump (AS	·	no sag						
	Full Adhesion (ASTN	· ·	7-14 days						
	Tack Free Time (AST	M C-679)	50 min.						
	Cured Properties after	er 7 days at 77°F (25°C), 50%	R.H.						
		Capability (ASTM C-719)	+/-50%						
	Elongation (ASTM D		700%						
	Shore A Hardness (A		25						
	Ozone/UV Resistance	,	Excellent						
	Peel Strength (ASTM on aluminum, glass a	C-794)	30 pli						
	Staining, Color Chan	ge (ASTM C-510)	None						
	Staining on Porous S	Substrates (ASTM C-1248)	No staining						
	Stress at 100% (AST	M D-412)	55 psi (0.38 MPa)						
	Service Temperature	Range	-80°F to 350°F						
	Tensile Strength (AS	•	200 psi (1.38 MPa)						
R I	NSTRUCTIONS ON THE PROD SHEET WHICH ARE AVAILABLI PARTMENT AT 800.933.7452 NC	UCT'S MOST CURRENT PRODUCE ONLINE AT HTTP://USA.SIKA.C DTHING CONTAINED IN ANY SIKA	ST ALWAYS READ AND FOLLOW THE WARNINGS AND CT DATA SHEET, PRODUCT LABEL AND SAFETY DATA OM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE- MATERIALS RELIEVES THE USER OF THE OBLIGATION COP EACH SIKA PRODUCT AS SET FORTH IN THE CUP						



ND TA DE-ON TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

Coverage	10.1	oz Cartrio	dge: Yield	in Linear	feet	1	20 0	oz Sausag	e: Yield ir	Linear fe	et	
		Depth	1/4"	3/8"	1/2"	1	[Depth	1/4"	3/8"	1/2"	
		1/4"	24.3			1		1/4"	48.1			
		3/8"	16.2	10.8		1		3/8"	32.1	21.4		
		1/2"	12.1	8.1	6.1]		1/2"	24.1	16.0	12.0	
	Width	3/4"	8.1	5.4	4.0	1	Width	3/4"	16.0	10.7	8.0	
	>	1"	ĺ		3.0	1	>	1"	ĺ		6.0	
		1.25"			2.4	1		1.25"	ĺ		4.8	
		1.5"			2.0			1.5"			4.0	
How to Use Surface Preparation	coat POF laita NOI	tings that ROUS \$ nce. N-POR(at may SUBST OUS S	interfei RATES UBSTF	re with S – clea RATES	adhesio an by m – for cl	on. ech ean	anical r ing non	nethod -porou	s to ex s subst	pose a rates, u	greases or incompatible sealers, paints sound surface free of contamination and use two rag wipe method using xylene of alant application.
Priming	Sika may prop	asil WS requir	-295 is e a prii applica	desigi mer. Te tion me	ned to est by a ethods.	obtain applying	adh g the to T	esion v e seala echnic	vithout	the us /or prir	e of a ner sea	primer; however, certain substrates alant combination to confirm results an imers Sikasil 2100 primer and contact
Application	widt dep ylen rod, 25% use ing con	th at tin th is 1/2 use po larger open c gun. Do sistent,	ne of in 2 inch o gassir olyethy than jo chan	Istallati (13mm) Ig poly- lene bo oint wid in hori pen pro- ve pres	ion. Th olefin c ond bre dth; do izontal oduct c ssure to	e depth the min or open eaker ta not co on grad contain o force	n of imu ape mpr de je er u sea	the sea m is 1/ l polyur to prev ess mo oints or ntil pre lant int	alant sl 4 inch rethand rent thr ore tha r with E paratic o the jo	nould k (6mm) e back ree-sid n 40% E.I.F.S. on work pint. To	e 1/2 t . To con er rod. ed adh . Open Ready c has b ol seal	aximum of ±25% movement of joint he width of the joint. The maximum ntrol joint depth, use closed cell polyet If joint depth does not allow for backer esion. Closed cell backer rod should b cell should be compressed 40%. Do r t to use, apply using professional cault een completed. Apply sealant using ant to create a concave joint shape an apy water or other liquids when tooling
Removal	Use Foll	xylene	e, dena vent ma	tured a	alcohol	or min	eral	spirits	to rem	iove ur	ncured	sealant from substrate and equipment sured material can only ne removed
		Do not Do not Not inte Sealan clean. (Do not Not rec Do not Do not Do not Lower Allow ti Brass a	allow s allow s ended t t may b Contac apply t comme apply t apply t temper reated and cop	sealant sealant for imn be app tt Techi when s nded fo nded fo nded fo to surfa to subs to dam rature a wood t oper m	t to con t to con nersion lied be nical S substra or structor or horizaces the strates p or we and hui to age ay be o	n. low free ervice f te temp ctural g zontal v at will t that ble et subs midity v six mor discoloo	onta onta ezin for r pera lazin vehic pe ed trate will e nths red.	ct with ct with g temp nore in tures a ng app cular tr ainted oil, pla es. extend before Test a	solver curing peratum format are belo lication affic. as sea sticized tack fro applio pply pr	nt durin polyur es if su ion. ow -20 is llant su rs or so rs or so ee and cation. ior to a	g cure. rethane bstrate °F or al urface v olvent. cure ra applicat	e sealants during cure. es are completely dry, frost free and bove 130°F. will not hold paint. ates.
IN SI PA TC	STRUC HEET W ARTMEN D READ	TIONS (HICH A IT AT 80 AND F(ON THE RE AVA 00.933.7 OLLOW	E PROD AILABL 7452 NC 7 THE W	DUCT'S E ONLI DTHING VARNIN	MOST NE AT I CONTA	CÚF HTTI AINE D IN	RRENT P://USA D IN AN STRUC	PRODU SIKA.(NY SIKA TIONS	ICT DA Com/ 0 Mate For e/	TA SHE R BY C RIALS I ACH SII	READ AND FOLLOW THE WARNINGS AN EET, PRODUCT LABEL AND SAFETY DA' ALLING SIKA'S TECHNICAL SERVICE D RELIEVES THE USER OF THE OBLIGATIC (A PRODUCT AS SET FORTH IN THE CU PRIOR TO PRODUCT USE.
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(R)	gional In Sika Co 201 Po Lyndhu		on and S on ue 7071	Sales Ce	enters. F Sika Car 601 Delr Pointe C	nada Inc nar Aver	:. iue	on of you	Sika Carre Fraco	Mexicar tera Lib	na S.A. o re Celay rial Balva	ce, contact your regional center. Je C.V. a Km. 8.5 anera

Product Data Sheet Edition 5.13.2016 Sikasil WS-295 FPS

Sikasil[®] WS-295 FPS



Neutral cure, field pigmentable silicone sealant

Description	tomeric, neutral cure silico of materials. Meets the rec	ne sealant for use in most com quirements of ASTM C-920, Ty	eed, one component plus color pack, non-sag elas- imon weatherproofing applications on a wide variety pe S, Grade NS, Class 50, Use NT, M, G, A, O; TT- MA 802.3 Type II, AAMA 803.3, AAMA 805.2, AAMA							
Where to Use	 As a weatherseal in no As a weatherseal in gla Sealing expansion and curtain walls. 	ess to glass butt joint glazing. control joints in precast concre ors, windows and other buildin uilding panels.	s including gap, toe and heel beads							
Advantages	 One-part plus color pac Unaffected by most atm Non-staining Joint movement ±50% Excellent adhesion Excellent gunnability in 	k nospheric conditions								
Packaging	2 gallon white base. Silicon	e color packs sold separately.								
			EPENDING UPON MIXING METHODS AND EQUIPMENT, AL SITE CONDITIONS AND CURING CONDITIONS.							
	Shelf Life	12 months in original unopene	ed cartridges							
		• .	at temperatures lower than 80°F (27°C).							
	Colors White, Colonial White, Aluminum, Limestone, Black, Bronze, Medium Bron Custom colors available on request.									
	VOC Content	37 g/l								
	Uncured Properties at	77°F (25°C), 50% R.H.								
	Tool/Work Time (Initia		20-30 minutes							
	Cure Time (ASTM C-67	,	7-14 days							
	Flow, Sag, Slump (AS	TM C-639)	no sag							
	Full Adhesion (ASTM	C-679)	7-14 days							
	Tack Free Time (ASTN	1 C-679)	50 min.							
	Cured Properties after	r 7 days at 77°F (25°C), 50% I	R.H.							
	Dynamic Movement C	apability (ASTM C-719)	+/-50%							
	Elongation (ASTM D-4	,	700%							
	Shore A Hardness (AS		25							
	Ozone/UV Resistance	```	Excellent							
	Peel Strength (ASTM (on aluminum, glass ar		30 pli							
	Staining, Color Chang	e (ASTM C-510)	None							
	Staining on Porous Su	ubstrates (ASTM C-1248)	No staining							
	Stress at 100% (ASTM	l D-412)	55 psi (0.38 MPa)							
	Service Temperature F	•	-80°F to 350°F							
A	Tensile Strength (AST	M D 412)	200 psi (1.38 MPa)							



Coverage	1 ga	allon: Yiel	d in Linea	r feet		
		Depth	1/4"	3/8"	1/2"	
		1/4"	307.9			
		3/8"	205.3	136.8		
		1/2"	153.9	102.6	77.0	
	Width	3/4"	102.6	68.4	51.3	
	>	1"			38.5	
		1.25"			30.8	
		1.5"			25.7	
How to Use						
Mixing	anti	mixing	paddle	to disp	erse the	our into pail. Mix using a slow speed drill (400-600 rpm) and a conventional secolor evenly for no more then three minutes, being sure to scrape down the sic nt during mixing.
Surface Preparation						frost free, sound and free of any oils, greases or incompatible sealers, paints
-	POF laita	ROŬS : ince.	SUBST	RATES	S – clea	Ihesion. by mechanical methods to expose a sound surface free of contamination a
	an a	approve	ed com	mercia	l solve	for cleaning non-porous substrates, use two rag wipe method using xylene Allow solvent to evaporate prior to sealant application. Strictly follow solv uctions for use.
Priming	may prop	/ requir	re a pri applica	mer. Te ition m	est by a ethods	to obtain adhesion without the use of a primer; however, certain substra plying the sealant and/or primer sealant combination to confirm results a Refer to Technical Data Sheet for primers Sikasil Primer-2100 and cont nformation.
Application	time (13r poly bon widt	e of inst mm) ar volefin d d breal th; do r	allation of the r or oper ker tap not con	n. The o ninimu n cell p e to pr npress	depth o m is 1// olyuret event t more t	width should be designed for a maximum of $\pm 25\%$ movement of joint width he sealant should be 1/2 the width of the joint. The maximum depth is 1/2 ir nch (6mm). To control joint depth, use closed cell polyethylene, non-gass ane backer rod. If joint depth does not allow for backer rod, use polyethyle ee-sided adhesion. Closed cell backer rod should be 25% larger than jo an 40%. Open cell should be compressed 40%. Do not use open cell roo E.I.F.S.
	Rea bee to c	ady to u n comp reate a	se, app pleted. conca	oly usir Apply : ve join	ng profe sealant	sional caulking gun. Do not open product container until preparation work h sing consistent, positive pressure to force sealant into the joint. Tool seal and maximum adhesion. Dry tooling is recommended. DO NOT use so
Limitations		Do not Not inte Sealan clean. Do not Not rec Do not Do not Do not Lower Allow t Brass a Test se Do not	allow sended t may l Contac apply somme comme apply temper reated and co ensitive use og	sealant for imm be app to the to surfator to substant to substant to dam to dam to dam to dam to substant to dam to substant substant substant to per cel	t to con nersion lied be substra or struc or horiz aces th strates p or we and hui to age s ay be o rates, s I rod in	in contact with solvent during cure. in contact with curing polyurethane sealants during cure. w freezing temperatures if substrates are completely dry, frost free and vice for more information. temperatures are below -20°F or above 130°F. ural glazing applications. ntal vehicular traffic. will be painted as sealant surface will not hold paint. at bleed oil, plasticizers or solvent. substrates. dity will extend tack free and cure rates. contact before application. scolored. Test apply prior to application. ch as mirror backings, for compatibility before use. orizontal on grade joint or with E.I.F.S.
IN SH PA TC RE	STRUCT HEET WI ARTMEN D READ ENT PRO	FIONS (HICH A IT AT 80 AND FO DUCT	ON THE RE AVA 0.933.7 DLLOW DATA S	E PROD ILABLI 452 NC THE W HEET, D. KEEP O	UCT'S E ONLII OTHING /ARNIN PRODU	ODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS A OST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DA AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE D ONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION S AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CL T LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.
act bef Prio	ual Safety fore using or to each	y Data Sh y the pro n use of a	neets con duct. In d ny Sika (ntaining case of e product,	physical emergen the user	ansportation, handling, storage and disposal of chemical products, users should refer to cological, toxicological and other safety related data. Read the current actual Safety Data Sr call CHEMTREC at 1-800-424-9300, International 703-527-3887. ust always read and follow the warnings and instructions on the product's most current Proc which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Dep
me for pro	nt at 800- each Sika duct use	933-7452 a produc	. Nothin t as set	g contain forth in t	ned in an the curre	Sika materials relieves the user of the obligation to read and follow the warnings and instruc Product Data Sheet, product label and Safety Data Sheet prior to
the Buy EXI SH. THI SA	current F yer's sole PRESS O ALL NOT E USE OF	Product E remedy R IMPLIE BE LIAB THIS PR IKA PRO	Data She shall be D SHAL LE UNDE ODUCT I DDUCTS	et if used limited to L APPLY ER ANY L N A MAN	d as direct the pure INCLUD EGAL TI NER TO I	te of installation to be free from manufacturing defects and to meet the technical properties d within shelf life. User determines suitability of product for intended use and assumes all ri ase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANT G ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. S ORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE I RINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHE KA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR
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Re	Sika Co 201 Po Lyndhu Phone:	formation orporati lito Aven lito, NJ 0 800-933 01-933-6	on ue 7071 8-7452		Sika Car 601 Delr Pointe C Quebec	r Avenue re R 4A9 I-697-2610 C.P. 76920 C.P. 769200 C.P. 76920 C.P. 769

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Construction

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Product Data Sheet Edition 5.4.2011 Sika Silbridge-300

Sika[®] Silbridge-300

Pre-formed, elastomeric silicone profile

Description	ally bonded to	Sika Silbridge-300 products are extruded ultra low modulus elastomeric silicone profile that are usu- ally bonded to substrates using Sikasil WS-295 sealant as an adhesive. Sika Silbridge-300 comes in a variety of standard shapes, colors and sizes and is successfully used in various applications.																
Where to Use	Sika Silbridge including but Expansion Window p Roofing se Fillet bead EIFS syste Metail curf	not li joint erime eals ls, co ems r	miteo seal eter jo ping	l to: s (ne [,] vint se joints	w & r eals and	emed	lial co	onstru	iction)		' num	erous	s арр	licatio	ons		
Advantages	 High tear i Ease of in Color fast Wide oper Non corros Resistant Capable o Reduces s Rapid cure Economica 	stalla form ation sive a to ult f sea stress e of tl	tion ulatio al ter and c raviol ling h at bo nin ac	npera orros et ex igh n ond-lii lhesiv	ion re posu nover ne ma /e lay	esista re and nent j aking ver all	nt d wea joints it wel lows	l suite for ea	ed for arly m	oven	nent d				tes si	uch a	s EIF	S
Surface Finis		Standard profiles have a matte surface. Coarse and fine textures to match building substrates a also available on a special order basis.																
Packages	Standard th	ickne	ess ap	prox	imate	ely 2 r	nm.											
	Extrusion Width (in.)	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	7	8	9	10	11	12
	Roll Length (ft.)	Image: Normal Sector																

Typical Data

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

TEIM ERATORE, ATTERATIO	A METHODO, TEOT METHODO, ACTORE ON	E constitione Ans constitione.
Hardness, Shore A (A	STM D-2240)	25 ± -5
Tensile Strength (AS	ГМ D-412)	425 psi (2.93 MPa)
Tear Strength (ASTM	D-624) (Die B)	70 lb/in + (12.2 N/mm +)
Elongation at Break (ASTM D-412)	950% +
Joint Movement Capa	ability (ASTM C-1518-02)	200% Elongation
		75% Compression
Operational Tempera	ture	-60°F to 300°F (-50°F to 150°C)
Colors	White, Black, Limestone, Alumin Bronze, and Medium Bronze. Cu	um Gray, Colonial White, and ustom colors available upon request.
UV Resistance	Unaffected	
Ozone Resistance	Unaffected	
Radiation	Unaffected	
Tear Propagation (AS	5TM C-1518-02)	Pass
		Movement Class: 200% E
		Tear Class: PT (Knotty Tear)



How To Use Surface Preparation	Porous surfaces should be cleaned with dry, oil free compressed air. Grinding or abrasion may be necessary to remove materials that may interfere with the sealant adhesive. If the substrate is cleaned with pressurized water, use caution to prevent water from entering the structure through the open joint. Ensure that all cleaning agents are completely removed and allow the substrate to adequately dry before applying the Sikasil WS-295 and the Sika Silbridge-300 pro- file. Make sure to follow sealant adhesion guidelines of Sikasil WS-295 product data sheet. Nor porous surfaces should be cleaned with an appropriate solvent using the two-cloth method.
Application	Apply a bead of Sikasil WS-295 in a straight line near the outside edge to be covered by Sika Silbridge-300. Allow enough space for the sealant adhesive to squeeze out to the edge of the extrusion and then stop. The bead should be approximately 1/8" to 1/4" in diameter depending on the uniformity of the substrate. Non porous surfaces such as glass or aluminum require less sealant adhesive, porous substrates such as grout or EIFS require more. Next, unroll the appropriate length of Sika Silbridge-300 strip and place it uniformly spaced over the joint to be sealed. To ensure uniform appearance, a flat piece of styro-foam can be used to press the extrusion firmly into place. If the application is on a smooth surface, a roller may be used to ensure a uniform wet-out of Sika Silbridge-300 along with the Sikasil WS-295. Clean or tool-off any excess sealant adhesive from the edges of the extrusion and substrate. Trim ends and terminate with a bead of sealant. Always apply horizontal joints before vertical joints. At intersections simply overlap the vertical Sika Silbridge-300 strip over the horizontal and ensure a proper seal by applying enough sealant adhesive.
	Sika Silbridge-300
	Masking Tape Sikasil W-295
	Joint design for failed V Substrate
l imitations	Sika Silbridge-300 profile should not be used under the following conditions • Below grade or below water line applications • Joints where physical abrasion and abuse may occur, such as traffic joint • In association with building materials that bleed oils, plasticizers or other material. • Do not coat with non silicone based coatings. • Should not be bonded with low modulus silicone sealant.
Caution	For Sikasil W-295 Material Safety Data Sheets are available upon request from Sika Corporation. Similar informa tion for solvents and other chemicals used with Sika products should be obtained from your suppliers. When solvents are used, proper safety precautions must be observed.
Clean Up	Uncured material can be removed with approved solvent. Cured material can only be removed mechanically. For spillage, collect, absorb, and dispose of in accordance with current, applicable local, state, and federal regulations.
	PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800-933-7452. NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTION FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.
For fu actua before	CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE OF Irther information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to I Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data S e using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.
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Buyer EXPR SHAL THE L SALE	Irrent Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all r's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRAN IESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. L NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE ISE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTH C OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ O ING 201-933-8800.
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Sikasil[®]-GP / GP High Temp. Red

General Purpose Acetoxy Cure Silicone

Technical Product Data (typical values) *Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

		Sikasil [®] -GP	Sikasil [®] -GP Hi Temp Red
Chemical Base		1-C silicone	1-C silicone
Color		Multiple	Red
Cure mechanism		Moisture	Moisture
Cure type		Acetoxy	Acetoxy
Density (uncured)		8.18 lb/gal	8.8 lb./gal.
VOC		36 g/L	36 g/L
Non-sag properties	(ASTM C-639)	Non-sag	Non-sag
Skin Time	(MNA Method)	20 minutes	20 minutes
Tack free time ²	(ASTM D-679)	30 minutes	30 minutes
Curing speed	(MNA Method)	1/8 inch 24 hours	1/8 inch 24 hours
Shrinkage		nil	nil
Shore A-hardness	(ASTM C-661)	25 +/-5	25 +/-5
Tensile strength	(ASTM D-412)	220 psi	350 psi
Elongation at break	(ASTM D-412)	350 %	400 %
Peel Strength	(ASTM C-794)	20) pli
Movement capability	(ASTM C-719)	+/	-25
Application Temperature ¹	product only	-35° to 140°F	- (-32 to 40°C)
Service temperature	permanent	- 40° to 275°F (-40° to 135°C)	- 80° to 500°F (-62° to 260°C)
	intermittent	325°F (163°C)	550°F (287°C)
Weathering Resistance		Excellent	Excellent
Shelf life (storage below 90°F (32°C))		24 months	24 months

¹⁾ Substrate and Air Temperature must be between 15° - 120°F (-26 - 49°C). See "Application" Section for details.

²⁾ 77°F (25°C) / 50% r.h. **Description**

Sikasil®-GP products are general purpose, one-component, non-sag, elastomeric, 100% RTV acetoxy silicone sealants. Meets the requirements of ASTM C-920, Type S, Grade NS, Class 25, Use NT, G, A, O. Recognized under UL QMFZ2, ANSI/NSF Standard 51 for direct food contact and California Air Resources Board 2003 requirements for Volatile Organic Compound content. Sikasil®-GP maintains elastomeric properties up to 275° F continuous, 325°F intermittent, and Sikasil[®]-GP HT (High Temperature) red up to 500°F continuous, 550°F intermittent. Sikasil®-GP HT Red also meets federal specification TT-S-005143A, Class A, and MIL-A-46106.

Product Benefits

- One-component ready to use
- Excellent for dynamic joint movement & dissimilar materials, Joint movement
- ±25% - Excellent adhesion, bonds to many
- substrates without priming
- Fast Cure Move assembled or sealed Sea
- parts quickly
- Wide service temperature / durability
- Superior gunning & tooling
- High temperature red for temperature resistance up to 550°F
 - Contains Anti-microbial additive for mold resistance

Areas of Application

- Sealing & glazing of windows, doors and skylights
- Conventional glazing and Storefronts
 Kitchen and bath countertops, Sanitary
- seals
- HVAC, Plumbing, Roofing
- Sealing trucks, trailers and RVs
- Marine applications
- Appliance Assembly

Typical Substrates

 Glass, aluminum, tile, fiberglass, plastic, ceramic, wood, steel and painted metals

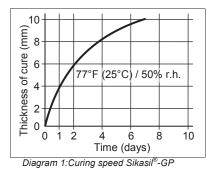


Coverage

Cartridge: Approximately 12.2 linear ft. (3.7 lin. m) for $\frac{1}{2} \times \frac{1}{4}$ in (13 x 6 mm) bead.

Cure Mechanism

Sikasil[®]-GP cures by reaction with atmospheric moisture. At low temperatures the water content of the air is lower and the curing reaction proceeds more slowly (see diagram below).



Chemical Resistance

Sikasil[®]-GP is resistant to UV radiation, fresh water, seawater and proprietary aqueous cleaning agents; temporarily resistant to fuels, mineral oils, vegetable and animal fats and oils; no resistance to organic acids, concentrated mineral acids, caustic solutions and solvents. The above information is offered for general guidance only. Advice on specific applications will be given on request. Contact Technical Service at (tsmh@sika-corp.com).

Method of Application

Surface preparation

The substrate must be clean, dry, frost free, sound and free of any oils, greases or incompatible sealers, paints or coatings that may interfere with adhesion.

POROUS SUBSTRATES - clean by mechanical methods to expose a sound surface free of contamination.

NON-POROUS SUBSTRATES - for

cleaning non-porous substrates, use two cloth cleaning method using xylene, isopropyl alcohol or an approved, clean, pure non-diluted industrial grade solvent. Allow solvent to evaporate completely prior to sealant application. Strictly follow solvent manufacturer's warnings and instructions for use.

PRIMING Sikasil[®]-GP is designed to obtain adhesion without the use of a primer; however, certain substrates may require a primer. Test by applying the

primer sealant and/or sealant combination to confirm results and proposed application methods. Refer to Technical Data Sheet for primers Sika® Aktivator[®]-205. Sikasil[®]-2100. or Sikasil[®]-2300 available at www.sikausa.com or contact Technical Service for additional information at (tsmh@sika-corp.com).

Application

In all cases, make sure the joint design is correct. Proper joint design minimizes stresses on the sealant. Use masking tape if desired for areas adjacent to the joint to be sealed to prevent surface contamination. Apply sealant to dry, clean surfaces. An air operated or hand operated cartridge gun may be used. Do not break cartridge seal until just before Surfaces should be dried before use the sealant is applied. Normally sealant skins in 10 minutes, dries to touch in 1 hour, bonds in 24 hours and fully cures in 7 days dependant on temperature and humidity.

This product is suitable for bulk dispensing straight from drums or pails by means of a pneumatic or hydraulic pump system. For recommendations on selecting and setting up a suitable pump system please contact our Technical Service Department at (tsmh@sikacorp.com).

Expansion Joint

Apply using caulking gun, dispensing equipment or trowel. Use sufficient quantity of adhesive to one or both substrates to provide designed contact area.

Adhesive Joint

Apply using professional caulking gun. Do not open product container until preparation work has been completed. Apply sealant using consistent, positive pressure to force sealant into the joint. Tool sealant to create a concave joint shape and ensure maximum adhesion. Dry tooling is recommended.

Tooling and finishing

Tool joint, if necessary, and remove masking tape. Tooling should be completed in one continuous stroke. Tool immediately after sealant is applied and before a skin begins to form. Dry tool - do not use soap, water or oil as a tooling aid. Remove masking tape immediately after tooling is completed. Complete Tooling of product within 5 minutes of sealant application.

Further information available at: www.sikausa.com

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Refer to Uncured S

Uncured Sikasil®-GP may be removed from tools and equipment with solvents such as isopropyl alcohol or xylene if cleaned before sealant has begun to cure. Strictly follow solvent manufacturer's instructions for use and warning statements. Once cured, the only be material can removed mechanically. Hands and exposed skin should be washed with soap and water immediately after use. Do not use solvents on skin!

Overpainting

Sikasil[®]-GP cannot be overpainted.

Limitations

- Certain substrates may require a primer.
- Do not allow sealant to come in contact with solvent during cure.
- Not intended for long term water immersion.
- Sealant may be applied below freezing temperatures if substrates are completely dry, frost free and clean.
- Maximum depth of sealant must not exceed 1/2 inch; minimum depth 1/8 inch.
- Do not apply to surfaces that will be painted.
- Do not apply to substrates that bleed oil, plasticizers or solvent.
- May stain porous substrates such as natural stone. Test before use.
- Do not apply to damp or wet substrates.
- Do not apply to surfaces sensitive to corrosion by acetic acid or vapors.
- Lower temperature and humidity will extend tack free and cure rates.
- Allow treated wood to age 6 months before application.
- Not intended for structural glazing
- Not for use in sealing insulating glass
- Test sensitive substrates, such as mirror backings for compatibility before use.
- Translucent product does not contain anti microbial additive.

WARNING: IRRITANT, SENSITIZER. Contains Ethyltriacetoxysilane (CAS: 17689-77-9) and Methyltriacetoxysilane (CAS: 4253-34-3). Direct eye contact may cause irritation. May cause skin and respiratory irritation. Mav cause drowsiness. May cause vomiting. When heated, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to the eyes, nose, throat, skin and digestive system. ო





HMIS	
Health	2
Flammability	1
Reactivity	0
Personal Protection	С

FIRST AID

Inhalation – Remove to fresh air. Eyes -Rinse with tepid water for 15 minutes. Call physician. Skin – Wash thoroughly with soap and tepid water. Remove contaminated clothing. Ingestion – Do not induce vomiting. Dilute with water. Call physician.

Further Information

Copies of the following publications are available on our website <u>www.sikausa.com</u> or by contacting (tsmh@sika-corp.com).

- Material Safety Data Sheet
- Product Data Sheet

In case of emergency call: Chemtrec: 800-424-9300 International: 703-527-3887

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Material Safety Data Sheets containing physical, ecological, toxicological and other safety related data. It is highly recommended to read the actual Material Safety Data Sheet before using the product.

- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- KEEP CONTAINER TIGHTLY CLOSED
- FOR PROFESSIONAL USE ONLY

Packaging Information

Cartridge	10 fl. oz. (295ml)
Drum	52 gal.

Value Basis

All technical data stated on this Product Data Sheet are based on the results of laboratory tests only. Actual measured data in the field may vary due to site specific conditions which are not known to Sika and beyond our control.

Handling and Storage

Avoid direct contact. Wear personal protective equipment (chemical resistant goggles/gloves/clothing) to prevent direct contact with skin and eyes. Use only in well ventilated areas. Open doors and windows during use. Use a properly fitted NIOSH respirator if ventilation is poor. Wash thoroughly with soap and water after use. Remove contaminated clothing and launder before reuse.

Clean Up

Observe personal protective equipment recommendations described in MSDS. Disposal of collected product, residues, and cleanup materials may be governmentally regulated. Observe all applicable local, state and federal waste management regulations. Ventilate area. Contain spill. Evacuate unprotected personnel from hazard area. Wipe up and contain for disposal. Cover with absorbent, place in approved drum. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard.

Limited Material Warranty

Sika warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES IMPLIED OR EXPRESS SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE **RESPONSIBLE FOR THE USE OF THIS** PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY **RIGHTS HELD BY OTHERS.**

Legal Notes/Disclaimer

All information provided by Sika Corporation ("Sika") concerning Sika products, including but not limited to, any recommendations and advice relating to the application and use of Sika products, is given in good faith based on Sika's current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with Sika's instructions. In practice, the differences in materials, substrates, storage and handling

conditions, actual site conditions and other factors outside of Sika's control are such that Sika assumes no liability for the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products. The user of the Sika product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with the full application of the product(s).

Sika reserves the right to change the properties of its products without notice. All sales of Sika product(s) are subject to its current terms and conditions of sale which are available at <u>www.sikausa.com</u> or by calling 201-933-8800.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Material Safety Data Sheet which are available at <u>www.sikausa.com</u>. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Material Safety Data Sheet prior to product use.

Further information available at: www.sikausa.com

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PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800-933-7452. NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTION FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

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Sikasil[®]-N Plus US Neutral Cure Silicone Assembly Sealant

Technical Product Data (typical values)

Chemical Base		1-C silicone	
		Pigmented	Translucent
Cure mechanism		Moisture	Moisture
Cure type		Oxime	Oxime
Density (uncured)		11.6 lbs./gal.	8.4 lb/gal
VOC		37 g/L (0.31 lb./gal.)	36 g/L, 0.30 lbs/gal
Non-sag properties	(ASTM C-639)	Non-sag	Non-sag
Slump		Nil	Nil
Skin Time	(MNA Method)	15 minutes	20 minutes
Tack free time ²	(ASTM D-679)	30 minutes	30 minutes
Extrusion Rate g/min (ASTM C-1183 mod	ified) 1/8" orifice @ 90 psi	230	360
Curing speed	(MNA Method)	1/8 inch 24 hours	1/8 inch 24 hours
Shrinkage		Nil	Nil
Shore A-hardness	(ASTM C-661)	30 ± 5	15 ± 5
Tensile strength psi (mpa)	(ASTM D-412)	300 psi (2.07)	190 psi (1.31)
Elongation at break	(ASTM D-412)	430%	430 %
Bond durability - glass/ aluminum / concre	te (ASTM-C793)	± 25 %	± 25 %
Movement capability	(ASTM C-719)	± 25 %	± 25 %
Application Temperature ¹	product only	-35° to 140	°F (-32 to 40°C)
Service temperature		- 80° to 350°	F (-62° to 176°C)
Weathering Resistance		Ex	cellent
Shelf life (storage below 90°F (32°C))	Cartridge and Unipac	12 months	12 months
	Drum and Pail	12 months	12 months

¹ Substrate and Air Temperature must be between 40° - 105°F (5 - 40°C). See "Application" Section for details. ²⁾ 77°F (25°C) / 50% r.h.

Description

Sikasil[®]-N Plus US is a general purpose, one-component, non-sag, elastomeric, 100% RTV neutral cure silicone sealant. Meets the requirements of ASTM C-920, Type S, Grade NS, Class 25, Use NT, T, M, G, A, O; TT-S-00230C, Type II, Class A; TT-S-001543A, Class A; CAN/CGSB-19.13-M87, AAMA 802.3 Type II, AAMA 803.3, AAMA 805.2, AAMA 808.3 and California Air Resources Board 2003 requirements for Volatile Organic Compound content.

Product Benefits

- Extremely long service lifeExcellent flexibility for dynamic joint
- Excellent flexibility for dynamic jo movement
- Bonds to most substrates without
- priming
 - Ready to use, no mixing required
 - AAMA Certified component for window
 - backbedding / glazing
- All season ease of application
- Fungicide additive for mildew
- resistance

Areas of Application

- Window and door fabrication
- Conventional glazing
- Back bedding and cap, toe and heel beads
- Perimeter sealing of windows, doors and skylights
- Expansion and control joints
- HVAC, White goods assembly
- Kitchen and bath countertops/solid surfaces, Sanitary Seals
 Marine cabins
- Truck/trailer/auto/RV

Typical Substrates

- Glass, aluminum, tile, fiberglass, plastic, ceramic, masonry, concrete, brick and wood



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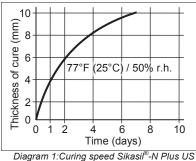
B160

Coverage

Cartridge: Approximately 12.2 linear ft. (3.7 lin. m) for $\frac{1}{2} \times \frac{1}{4}$ in (13 x 6 mm) bead.

Cure Mechanism

Sikasil[®]-N Plus US cures by reaction with atmospheric moisture. At low temperatures the water content of the air is lower and the curing reaction proceeds more slowly (see diagram below).



Chemical Resistance

Sikasil[®]-N Plus US is resistant to UV radiation, fresh water, seawater and proprietary aqueous cleaning agents; temporarily resistant to fuels, mineral oils, vegetable and animal fats and oils; no resistance to organic acids, concentrated mineral acids, caustic solutions and solvents. The above information is offered for general guidance only. Advice on specific applications will be given on request. Contact Technical Service at (tsmh@sika-corp.com).

Method of Application Surface preparation

The substrate must be clean, dry, frost free, sound and free of any oils, greases or incompatible sealers, paints or coatings that may interfere with adhesion.

POROUS SUBSTRATES – clean by mechanical methods to expose a sound surface free of contamination.

NON-POROUS SUBSTRATES – for cleaning non-porous substrates, use two cloth cleaning method using isopropyl alcohol, xylene or an approved, clean, pure non-diluted industrial grade solvent. Allow solvent to evaporate completely prior to sealant application. Strictly follow solvent manufacturer's instructions for safe handling.

PRIMING Sikasil[®]-N Plus US is designed to obtain adhesion without the use of a primer; however, certain substrates may require a primer. Test by applying the

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sealant and/or primer sealant combination to confirm results and proposed application methods. Refer to Product Data Sheet for primers **Sikasi**[®] **2100**, or **Sikasi**[®] **2300** available at www.sikausa.com or by contacting Technical Service for additional information and recommendations at (tsmh@sika-corp.com).

Application

In all cases, make sure the joint design is correct. Proper joint design minimizes stresses on the sealant. Use masking tape if desired for areas adjacent to the joint to be sealed to prevent surface contamination. Apply sealant to dry, clean surfaces. An air operated or hand operated cartridge gun may be used. Do not break cartridge seal until just before use. Surfaces should be dried before the sealant is applied. Normally sealant skins in 8 minutes, dries to touch in 1 hour, and bonds in 24 hours.

This product is suitable for bulk dispensing straight from drums or pails by means of a pneumatic or hydraulic pump system. For recommendations on selecting and setting up a suitable pump system please contact our Technical Service Department at (tsmh@sikacorp.com).

Expansion Joint

Apply using professional caulking gun. Do not open product container until preparation work has been completed. Apply sealant using consistent, positive pressure to force sealant into the joint. Tool sealant to create a concave joint shape and ensure maximum adhesion. Dry tooling is recommended.

Adhesive Joint

Apply using professional caulking gun, dispensing equipment or trowel. Use sufficient quantity of adhesive to one or both substrates to provide designed contact area. Surfaces may be moved up to one hour after application without loss of adhesive strength.

Tooling and finishing

Tool joint, if necessary, and remove masking tape. Tooling should be completed in one continuous stroke. Tool immediately after sealant is applied and before a skin begins to form. Dry tool -DO NOT use soap, water or oil as a tooling aid. Remove masking tape immediately after tooling is completed. Complete tooling of product within 5 minutes of sealant application. Removal

Uncured sealant may be removed from tools and equipment with solvents such as isopropyl alcohol or xylene, if cleaned before sealant has begun to cure. Strictly follow solvent manufacturer's instructions for use and warning statements. Once cured, the material can only be removed mechanically. Hands and exposed skin should be washed with soap and water immediately after use. Do not use solvents on skin!

Overpainting

Sikasil[®]-N Plus US cannot be overpainted.

Limitations

- Do not allow sealant to come in contact with solvent during cure.
- Do not allow sealant to come in contact with curing polyurethane sealants during cure.
- Not intended for immersion.
- Not intended for structural glazing.
- Sealant may be applied below freezing temperatures if substrates are completely dry, frost free and clean. Contact Technical Service for more information.
- Not recommended for horizontal traffic.Not recommended for absorptive
- surfaces such as natural stone, particularly limestone or marble where staining may occur. Test before use. Do not apply to surfaces that will be
- painted. • Do not apply to substrates that bleed
- oil, plasticizers or solvent. - Do not apply to damp or wet
- substrates. - Lower temperature and humidity will
- extend tack free and cure rates.
- Allow treated wood to age six months before application.
- Brass and copper may be discolored. Test prior to application.
- Test sensitive substrates, such as mirror backings for compatibility before use.

WARNING: IRRITANT, SENSITIZER. Contains Methyl ethyl ketoxime (CAS: 96-29-7), Oximino Silane (Trade Secret). Direct eye contact may cause irritation. Eye contact may cause conjunctivitis, corneal damage, or severe chemical burns. May cause skin irritation and sensitization. May be absorbed through the skin. May cause irritation to system. respiratory May cause drowsiness. May be harmful if swallowed. heated silicones can form If formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant





to the eyes, nose, throat, skin, and digestive system. Product contains oximes, possible skin sensitizers.

HMIS	
Health	*1
Flammability	1
Reactivity	0
Personal Protection	С

FIRST AID

In case of eye contact, flush thoroughly with water for at least 15 minutes. In case of skin contact, remove from skin and flush with water for 15 minutes. wash contaminated Remove and clothing. If inhalation causes physical discomfort, remove to fresh air. Get medical attention if irritation develops or ill effcts persist. Treat according to persons condition and specifics of exposure.

Further Information

Copies of the following publications are available website on our www.sikausa.com or by contacting (tsmh@sika-corp.com)

- Material Safety Data Sheet

- Product Data Sheet

In case of emergency call: Chemtrec: 800-424-9300 International: 703-527-3887

For further information and advice transportation, handling, regarding storage and disposal of chemical products, users should refer to the actual Material Safety Data Sheets containing physical, ecological, toxicological and other safety related data. It is highly recommended to read the actual Material Safety Data Sheet before using the product.

- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- KEEP CONTAINER TIGHTLY CLOSED
- FOR PROFESSIONAL USE ONLY

Packaging Information

Cartridge	10 fl. oz. (295ml)
Pail	4.5 gal (17 L) in a 5 gal pail
Drum	52 gal (197 L) in 55 gal drum
Value Basis	

All technical data stated on this Product Legal Notes/Disclaimer Data Sheet are based on the results of laboratory tests only. Actual measured data in the field may vary due to site specific conditions which are not known to Sika and beyond our control.

Handling and Storage

Use with adequate ventilation. Product evolves Methyl ethyl ketoxime (MEKO) and methanol when exposed to water or humid air. Provide adequate ventilation to control MEKO within exposure guidelines. Keep container closed and store away from water or moisture or oxidizing materials.

Storage: When stored in the original, unopened containers at or below 90°F (32°C), shelf life is one year. A product skin may form in pails and drums, remove prior to use.

Clean Up

Observe personal protective equipment recommendations described in MSDS. Disposal of collected product, residues, and cleanup materials may be governmentally regulated. Observe all applicable local, state and federal waste management regulations. Wipe up and contain for disposal. Final cleaning may require use of steam, solvents, or detergents.

Limited Material Warranty

Manufacturer / Distributor warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES IMPLIED OR EXPRESS SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY OR ΔΝΥ OTHER PATENT INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

ΔII information provided by Sika Corporation ("Sika") concerning Sika products, including but not limited to, any recommendations and advice relating to the application and use of Sika products, is given in good faith based on Sika's current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with Sika's instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of Sika's control are such that Sika assumes no liability for the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products. The user of the Sika product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with the full application of the product(s).

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Further information available at: www.sikausa.com

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SikaHyflex[®]-150 LM

One part, low modulus, hybrid sealant

12.1

8.1

1/2"

1"

1.25"

1.5"

4tpi 3/4"

8.1

5.4

6.1

4.0

3.0

2.4

2.0

Description	· · ·		ent, fast curing, one component, non-sag, elastomeric, NS, Class 50, use NT, M, A, G, O
Where to Use	Window PerimeterExpansion jointsCurtain Wall construction	e both paintability and	es – e.g. vinyl to concrete, aluminum to EIFS. d adhesion to non-porous substrates
Advantages	 Fast skin time Multi-substrate adhesion Superior UV resistance and Color retention – white stay Can be over-painted soon a Very low VOC < 12g/L Non-staining 	s white	e skin has formed)
Packaging	10.1 fl. oz. Cartridge 20 fl. oz. Uni-pac sausage		
	RESULTS MAY DIFFER BASED UP	ON STATISTICAL VARIATI THODS, TEST METHODS, 719): 1): I C510):	nditions @ 73°F (23°C) and 50% R.H.) DNS DEPENDING UPON MIXING METHODS AND EQUIPMENT, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. 1 year 40°F (5°C) - 80°F (27°C), 50% RH. Condition Material to 65°F - 75°F before using 40° - 100°F. Sealant should be installed when joint is at mid-range of its anticipated movement -40° - 170°F 12 g/L <1 hr +/- 50% 30 psi 1000% 27 None Aluminum 36.5 pli Glass 33.8 pli Concrete 31.0 pli Excellent
Coverage	10.1 oz Cartridge: Yield in Linear feet	20 oz Sausage: Yield	in Linear feet
	Depth 1/4" 3/8" 1/2"	Depth 1/4"	3/8" 1/2"
	1/4" 24.3	1/4" 48.1	
			214
	3/8" 16.2 10.8	3/8" 32.1	21.4



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1/2"

3/4"

1"

1.25"

1.5"

Width

24.1

16.0

16.0

10.7

12.0

8.0

6.0

4.8

4.0

How To Use	
Surface Preparat	on The substrate must be clean, dry, frost free, sound and free of any oils, greases or incompatible sealers, paints or coatings that may interfere with adhesion.
	POROUS SUBSTRATES – clean by mechanical methods to expose a sound surface free of contamination and laitance.
	NON-POROUS SUBSTRATES – for cleaning non-porous substrates, use two rag wipe method using al- cohol, xylene or an approved commercial solvent. Allow solvent to evaporate prior to sealant application.
Priming	SikaHyflex®-150 LM is designed to obtain adhesion without the use of a primer; however, certain substrates may require a primer. Test by applying the sealant and/or primer sealant combination to confirm results and proposed application methods. *In the situation where primer is needed on porous surfaces use Sika Primer 429. For non-porous surfaces contact Technical Services for proper recommendation.
Application	The number of joints and the joint width should be designed for a maximum of ±25% movement of joint width at time of installation. The depth of the sealant should be 1/2 the width of the joint. The maximum depth is 1/2 inch (13mm) and the minimum is 1/4 inch (6mm). To control joint depth, use closed cell polyethylene, non-gassing polyolefin or open cell polyurethane backer rod. If joint depth does not allow for backer rod, use polyethylene bond breaker tape to prevent three-sided adhesion. Closed cell backer rod should be 25% larger than joint width; do not compress more than 40%. Open cell should be compressed 40%. Do not use open cell rod in horizontal on grade joints or with E.I.F.S. Ready to use, apply using professional caulking gun. Do not open product container until preparation work has been completed. Apply sealant using consistent, positive pressure to force sealant into the joint. Tool sealant to create a concave joint shape and achieve maximum adhesion. Dry tooling is recommended. DO NOT use soapy water or other liquids when tooling.
Limitations	 SikaHyflex[®]-150 LM can be overpainted after a skin forms on the sealant When overcoating with water, oil and rubber based paints, compatibility and adhesion testing is essential. Rigid paints and coatings may lose adhesion to elastomeric sealants due to their inability to accommodate joint movement. Maximum depth of sealant must not exceed 1/2 in.; minimum depth is 1/4 in. Do not cure in the presence of curing silicone or polyurethane sealants. Use opened cartridges and uni-pac sausages the same day. When applying sealant, avoid air-entrapment. Since system is moisture-cured, permit sufficient exposure to air. Light colors can yellow if exposed to direct gas fired heating element. Do not tool with detergent or soap solutions. Do not use in contact with bituminous/asphaltic materials. Not intended for immersion. Not intended for structural glazing applications Sealant may be applied below freezing temperatures if substrates are completely dry, frost free and clean. Contact Technical Service for more information. Do not apply when substrate temperatures are below -20°F or above 130°F. Not recommended for horizontal vehicular traffic. Do not apply to substrates that bleed oil, plasticizers or solvent. Do not apply to damp or wet substrates. Lower temperature and humidity will extend tack free and cure rates. Allow treated wood to age six months before application. The ultimate performance of SikaHyflex-150 LM depends on good joint design and proper application with joint surfaces properly prepared.
	PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE. SEEP CONTAINER TIGHTLYCLOSED. KEEP OUT OF REACH OF CHILDREN.NOT FOR INTERNAL CONSUMPTION.FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY. Seep CONTAINER TIGHTLYCLOSED. KEEP OUT OF REACH OF CHILDREN.NOT FOR INTERNAL CONSUMPTION.FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY. Seep CONTAINER TIGHTLYCLOSED. KEEP OUT OF REACH OF CHILDREN.NOT FOR INTERNAL CONSUMPTION.FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY. Seep CONTAINER TIGHTLYCLOSED. KEEP OUT OF REACH OF CHILDREN.NOT FOR INTERNAL CONSUMPTION.FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY. Seep Contraining physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction or each Sika product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet file yead as directed within shelf life. User determines suitability of product for labor. ON OTHER WARRANTESS E

Product Data Sheet

Edition 1.21.2016 Identification no. Sika® Loadflex®-524 EZ

Sika[®] Loadflex[®]-524 EZ

Two Component, Semi Rigid, Polyurea Control Joint Filler

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Description	Sika® Loadflex® -524 EZ is a technologically advanced, two-component, quick-setting, semi-rigid						
•	solvent-free, se		-		,	· · · · ·	
Where to Use	preformed co Typically insta subject to loa Sika® Loadfle	 Sika[®] Loadflex[®] -524 EZ is recommended for use as filler for static interior, horizontal saw cuts or preformed control and construction joints. Typically installed in facilities such as warehouses and industrial plants, where such joints are subject to load-bearing conditions involving wear and impact. Sika[®] Loadflex[®] -524 EZ is also used for repairing interior concrete slabs that have experienced random cracking due to shrinkage. 					
Advantages	 Material can l 73°F (23°C). Cures at temµ Hard, load-be Provides ever under traffic. Two compone Improved con Seals joints future 	Quick-set formula reduces down time. Material can be shaved off smooth as early as 5 minutes or as late as 24 hours after placement at 73°F (23°C). Cures at temperatures down to -13°F (-25°C). Hard, load-bearing filler designed to withstand industrial traffic. Provides even load transfer across floor joints, thereby protecting joint edges from breaking down					
			ILIVILY.				
Packaging	10 US gallon uni	it (Part A 5	/	5 gal)			
Packaging	10 US gallon uni Technical RESULTS M MIXING M	it (Part A 5 MAY DIFFI ETHODS A HODS, AC	gal, Part B S ER BASED ND EQUIP TUAL SITE 12 mon Store b	UPON STA MENT, TE CONDITIC ths in origin	MPERATU DNS AND C	RE, APPLI URING CO ed packaging	NS DEPENDING UPON CATION METHODS, NDITIONS. g. duct between 65 and
Packaging	10 US gallon uni Technical RESULTS M MIXING MI TEST METI Shelf Life Storage Cor	it (Part A 5 MAY DIFFI ETHODS A HODS, AC	gal, Part B S ER BASED ND EQUIP TUAL SITE 12 mon Store b 86°F be	UPON STA MENT, TE CONDITIC	MPERATU DNS AND C	RE, APPLI URING CO ed packaging	CATION METHODS, NDITIONS.
Packaging	10 US gallon uni Technical RESULTS M MIXING MI TEST MET Shelf Life	it (Part A 5 MAY DIFFI ETHODS A HODS, AC	gal, Part B S ER BASED AND EQUIP TUAL SITE 12 mon Store b 86°F be Gray Coverag	UPON STA MENT, TE CONDITIC ths in origin etween 59 a efore using. ge rates for	MPERATU DNS AND C and, unopend and 89°F. Co a 10 US gal	RE, APPLI CURING CO ed packaging ondition pro	CATION METHODS, NDITIONS. g. duct between 65 and a® Loadflex®-524 EZ
Packaging	10 US gallon uni Technical RESULTS M MIXING MI TEST METI Shelf Life Storage Cor Colors Estimated N	it (Part A 5 MAY DIFFI ETHODS A HODS, AC nditions Yield	gal, Part B S ER BASED AND EQUIP TUAL SITE 12 mon Store b 86°F be Gray Coverag	UPON STA PMENT, TE CONDITIC ths in origin etween 59 a efore using. ge rates for be installed	MPERATU DNS AND (aal, unopene and 89°F. Co a 10 US gal to the full	RE, APPLI CURING CO ed packaging ondition pro lon unit. Sik depth of the	CATION METHODS, NDITIONS. g. duct between 65 and a® Loadflex®-524 EZ
Packaging	10 US gallon uni Technical RESULTS M MIXING MI TEST METI Shelf Life Storage Cor Colors Estimated N	it (Part A 5 MAY DIFFI ETHODS A HODS, AC nditions Yield erage for	gal, Part B S ER BASED ND EQUIP TUAL SITE 12 mon Store b 86°F be Gray Coverag should	UPON STA PMENT, TE CONDITIC ths in origin etween 59 a efore using. ge rates for be installed	MPERATU DNS AND (aal, unopend and 89°F. Co a 10 US gal to the full Dint widt	RE, APPLI CURING CO ed packaging ondition pro lon unit. Sik depth of the	CATION METHODS, NDITIONS. g. duct between 65 and a® Loadflex®-524 EZ
Packaging	10 US gallon uni Technical RESULTS M MIXING MI TEST METI Shelf Life Storage Cor Colors Estimated N	it (Part A 5 MAY DIFFI ETHODS A HODS, AC nditions Yield erage for	gal, Part B S ER BASED ND EQUIP TUAL SITE 12 mon Store b 86°F be Gray Coverag should	UPON STA MENT, TE CONDITIC ths in origin etween 59 a efore using. ge rates for be installed n kit at jo	MPERATU DNS AND (aal, unopend and 89°F. Co a 10 US gal to the full Dint widt	RE, APPLI CURING CO ed packaging ondition pro lon unit. Sik depth of the ch of:	CATION METHODS, NDITIONS. g. duct between 65 and a® Loadflex®-524 EZ
Packaging	10 US gallon uni Technical RESULTS M MIXING MI TEST METI Shelf Life Storage Cor Colors Estimated N Cove	it (Part A 5 MAY DIFFI ETHODS A HODS, AC nditions Yield erage for Depth	gal, Part B S ER BASED ND EQUIP TUAL SITE 12 mon Store b 86°F be Gray Coverag should	UPON STA PMENT, TE CONDITIC ths in origin etween 59 a efore using. ge rates for be installed n kit at jo (3mm)	MPERATU DNS AND (all, unopene and 89°F. Co a 10 US gal to the full Dint widt 1/4 in.	RE, APPLI CURING CO ed packaging ondition pro lon unit. Sik depth of the ch of: (6mm)	CATION METHODS, NDITIONS. g. duct between 65 and a® Loadflex®-524 EZ
Packaging	10 US gallon uni Technical RESULTS M MIXING MI TEST METI Shelf Life Storage Corr Colors Estimated N Cove Joint D	it (Part A 5 MAY DIFFI ETHODS A HODS, AC nditions Yield erage for Depth mm	gal, Part B S ER BASED ND EQUIP TUAL SITE 12 mon Store b 86°F be Gray Coverag should 10 gallor 1/8 in. ft	UPON STA MENT, TE CONDITIC ths in origin etween 59 a efore using. ge rates for be installed n kit at jo (3mm) m	MPERATU DNS AND C aal, unopene and 89°F. Co a 10 US gal to the full Dint widt 1/4 in. ft	RE, APPLI CURING CO ed packaging ondition pro lon unit. Sik depth of the ch of: (6mm) m	CATION METHODS, NDITIONS. g. duct between 65 and a® Loadflex®-524 EZ

Note: The above chart is a theoretical guide only. Allowance must be made for surface profile, wastage, etc.

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		Mix Rati		A:B = 1:1 by volum	e
			ies at 23°C (73°F) and 5		
		Pot life	time.	20 sec.	
		Working	of Elasticity ASTM D638	10 sec. 6525 psi	
			trength ASTM D638	652 psi	
			on at Break ASTM D638	110%	
		Bond str		> 218 psi	
			ion ASTM D570	0.30%	
		Shore D	Hardness ASTM D2240	30-32	
		Shore A	Hardness ASTEM D2240	80-85	
		Density		Part A	1.11 g/mL
				Part B	1.10 g/mL
		Deferme	tion MIL D 24612 mod	Part A+B	1.1 g/mL
		Viscosity	ition MIL-D-24613 mod.	6.9 NPa (1000 psi Part A 2000-2500	
		VISCOSIL	/	Part B 1000-1600	
		Cure tim	e	Light traffic	
			-	5	15 min at 73°F (23°) 60 min at -13°F (-25°)
				Full traffic	30 min at 73°F (23°) 2 hrs at -13°F (-25°)
		Product pro	portios are typically averages obt	ained under laboratory conditions. Reaso	
				ment, preparation, application, curing and	
		on site due			
Method of App Mixing		Pre-mix each	n component thoroughly b	efore using. Sika® Loadflex® -524	4 EZ must be machine
	m	ixed / dispen	ised using a 1 to 1 ratio, plu	ral component pump and 30 ele	ment static mixing nozzle.
	No	ote: Sika® Lo	adflex® -524 EZ sets too q	uickly to allow hand mixing.	_
Surface Preparat	ion .	Surface mus	t he clean, sound and dry	Remove all surface contaminant	s including without limita-
Juliace Piepalat				curing compounds, impregnation	
	ar	nd disintegrat	ted materials that might p	revent bond. Preferred methods	of joint cleaning include
	US	sing a dustles	ss saw with diamond blade	e, with blade slightly wider than t sual conditions are present conta	the joint so both sides of
	JUI		a of sallu plasting. If ullus	sual conditions are present conta	
Application				tly from the static mixing nozzl	
	th	e entire void	is filled. Maintain a steady	/ flow of material to eliminate ov	erlapping as this may
	ca	use bubbling	, WITHIN THE MATERIAL JOINTS	s should be slightly over filled an h appearance. For best results, s	a snaved level with the
	15	minutes to 2	24 hours after placing, whe	n cured at 73°F (23°C). Cartridge	: Product gels in static
	m	ixer after 15 s	seconds. Once started, do i	not stop the extrusion process. A	dditional static mixers are
			your supplier, if needed.		
Limitations	-			EZ should be installed 120 days o	
		crete placem	ient, when the majority of	concrete shrinkage has occurred	and control joints are
	-		to the relevant CSA A23.1	ess than -13°F (-25°C) and rising	at time of application
			horizontal use only.		
				onditioned to between 65 and 86	5°F (18 and 30°C).
		DO NOT THIN. Sika® Loadfl	Solvents may prevent prop ex [®] -524 E7 is a vanor bar	Jer Cure. Vier after cure	
		Not for seali	ex® -524 EZ ís a vapor bari ng cracks under hydrostati	c pressure.	
		Not to be us	ed in moving cracks or join	ts which are designed for or exh	bit movement.
	-	Not recomm	iended for use as joint fille ka Sales Penresentative or	r under resilient flooring or unde the Technical Service Departme	r polymer flooring. Lontact
		,	1		
				JSER MUST ALWAYS READ AND F	
				RODUCT DATA SHEET, PRODUCT I COM/ OR BY CALLING SIKA'S TE	
				ATERIALS RELIEVES THE USER OI	
				EACH SIKA PRODUCT AS SET FO	RTH IN THE CURRENT PRODUCT
				HEET PRIOR TO PRODUCT USE.	
				FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL	
	actual Safety Da	ta Sheets contai	ning physical, ecological, toxicolo	dling, storage and disposal of chemical ogical and other safety related data. Read	the current actual Safety Data Sheet
	before using the	product. In cas	e of emergency, call CHEMTREC a	at 1-800-424-9300, International 703-527-3	387.
				nd follow the warnings and instructions or le online at http://usa.sika.com/ or by call	
	ment at 800-933-	-7452. Nothing co	ontained in any Sika materials relie	eves the user of the obligation to read and	follow the warnings and instruction
	for each Sika pro product use.	oduct as set fort	h in the current Product Data She	et, product label and Safety Data Sheet p	ior to
		his product for a	ne year from date of installation t	o be free from manufacturing defects and	to meet the technical properties on
1	the current Prod	luct Data Sheet if	used as directed within shelf life.	User determines suitability of product for	intended use and assumes all risks.
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	Phone: 800 Fax: 201-93		Quebec H9R 4A9 Phone: 514-697-2610	Corregidora, Queretaro C.P. 76920	NSIBLE CARE ISO 9001
	1 an. 201-9	00-0220	Fax: 514-694-2792	Phone: 52 442 2385800	RC 14001 Contract F C 0000
				Fax: 52 442 2250537	

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Sikadur® 51 NS Flexible epoxy control-joint sealer/adhesive

Description	Sikadur® 51 NS is a 2-component, non-sagging, solvent-free, moisture-tolerant, flexible epoxy control joint sealer and adhesive.
Where to Use	 Use to fill vertical and overhead non-moving, saw-cut construction control joints and cracks. Use as a flexible adhesive.
Advantages	 2 to 1 ratio ensures easy mixing, easy handling. An adhesive with excellent flexibility. Excellent durability. Conforms to ACI 302.1R (4.10-Joint Materials). Shock-absorbent cure. Prevents deterioration of control-joint edges. Use as a security sealant.
Coverage	1 gal. will yield 231 cu. in. or will fill 102 ft. of 1/8 in. wide x 1.5 in. deep joint.
Packaging	3 gallon units.

Typical Data Material and curing conditions @ 73°F (23°C) and 50% R.H.

	D UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, N METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.		
Shelf Life	2 years in original, unopened containers		
Storage Conditions	Store dry at 40°-95°F (4°-35°C). Condition material to 65°-85° F (18°- 29°C) before using.		
Color	Concrete gray		
Mixing Ratio	Component 'A': Component 'B' = 2:1 by volume.		
Viscosity	Comp. 'A' 300,000-350,000 cps Comp. 'B' 29,000-31,000 cps Mixed Non-sag paste		
Pot Life	1-1.5 hours		
Tack-Free Time	7-8 hours.		
Elc	ASTM D-638) Insile Strength 650 psi (3.9 MPa) Description at Break 80% Dodulus of Elasticity 1,800 psi (12.4 MPa) Insile stress at % elongation 2.5% 50 psi (0.35 MPa) 5% 90 psi (0.62 MPa) 10% 160 psi (1.10 MPa)		
Tear Resistance (AST	TM D-624) 14 days 110 lb./in. (19.4 N/mm)		
Hardness (ASTM D-2	240) 28 days (Shore A) 75-80 (Shore D) 30-40		



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	Substrate must be clean and sound. It may be dry or damp, but free of standing water. Remove dust, laitance grease, curing compounds, impregnations, waxes, foreign particles, disintegrated materials, etc., by mechanica means (i.e. sandblasting, high pressure water blasting).
Mixing	Pre-mix each component. It is critical to accurately proportion 2 parts Component 'A' and 1 part Componer 'B' by volume into a clean pail or appropriately sized mixing container. Mix thoroughly for 3 minutes with a Sik Paddle on a low-speed (400- 600 rpm) drill until uniform in color. Mix only that quantity which can be use within pot life.
Application	For vertical or overhead applications, gun Sikadur [®] 51 NS into construction/control joints and cracks wit caulking gun, pressure extruder, or other suitable methods. Be sure to maintain steady pressure and stead flow of material, filling entire joint in a single application. Take care to eliminate overlapping as this may caus bubbling within the material. For use as a flexible adhesive, consult Sika Technical Service at 800-933-SIKA
Limitations	 Do not thin Sikadur[®] 51 NS. Addition of solvents may prevent proper cure. Substrate temperature should be 40°F (4°C) minimum and rising. For best results, materials should be maintained between 65°-85°F (18°-29°C) during application. Do not apply through standing water. Minimum age of concrete is 28 days. Materials are vapor barriers after cure. Concrete or masonry must be tested for water-vapor transmission prior to application. Not designed for use under constant immersion in water or other liquids. Do not use in expansion (moving) joints. For application in non-moving joints only. The ultimate performance of Sikadur[®] 51 NS depends upon many factors, [i.e., proper joint design, thermally stable areas, (concrete slab), etc.]. For applications other than sealing of control or construction joints, consult Sika Technical Service at 800-933-SIKA. Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure.
INST SHEI	OR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AN RUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DAT. ET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE TMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATIO
REN	READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUP T PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

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Product Data Sheet Edition 10.29.2014 Sikadur[®] 51 SL

Sikadur[®] 51 SL Flexible epoxy control joint resin

Description	Sikadur® 51 SL is a 2-component, self-leveling, 100% solids, flexible, control joint resin sealer and adhesive.
Where to Use	Use to fill horizontal, non-moving, saw cut construction control joints and cracks.Use as a flexible adhesive.
Advantages	 Remains flexible. Does not age-harden. Prevents deterioration of joint edges. Excellent adhesive properties. Conforms to ACI 302.1R (4.10-Joint Materials). Ideal for use with plural injection type systems. Can be used on grades up to 15%. Shock absorbent and durable. Withstands wheel traffic and heavy loads. Use as a security sealant. Use as a tamper resistant sealant.
Coverage	1 gal. will yield 231 in ³ or will fill 100 lin. ft. of 1/8 in. x 1.5 in. deep joint.
Packaging	4 gallon units.

Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life	2 years in original, unopened containers.
Storage Conditions	Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75° F (18°- 24°C) before using.
Color	Concrete Gray
Mixing Ratio	Component 'A': Component 'B' = 1:1 by volume.
Viscosity	Comp. 'A'5,800 cps (5,800)Comp. 'B'7,900 cps (7,900)Mixed7,000 cps (7,000)
Pot Life	20-25 minutes, 1 gallon (3.8 liter) 40 minutes, 8 fl. oz. (250 ml)
Tack-Free Time	7-8 hours
EI	ASTM D-638)ensile Strength570 psi (3.9 MPa)longation at Break90%odulus of Elasticity2,800 psi (19.3 MPa)ensile stress at % elongation2.5%70 psi (0.48 MPa)5%110 psi (0.75 MPa)10%160 psi (1.10 MPa)
Tear Resistance (AST	TM D-624) 14 days 170 lb./in. (29.8 N/mm)
Hardness (ASTM D-2	2240) 28 days Hardness (Shore D) 50-55
Water Absorption (A	STM D-570) 7 days (24 hour immersion) 1.86%



How to Use Surface Preparation	 Substrate must be clean and sound. It may be dry or damp, but free of standing water. Remove dust, laitand grease, curing compounds, bond inhibiting impregnations, waxes and any other contaminants. Concrete - Should be cleaned and prepared to achieve a laitance and contaminant free, open textured surfa by blast cleaning or equivalent mechanical means.
Mixing	Pre-mix each component. Proportion equal parts by volume of Component A and Component B into cle pail. Mix thoroughly for 3 minutes with a low-speed (400-600 rpm) drill using a Sika paddle until uniform color. Mix only that quantity that can be applied within its pot life.
Application	Pour the mixed Sikadur® 51 SL into the prepared joint or use low-pressure extrusion equipment. Option 1: Allow the material to flow slowly, settle and self-level filling entire depth. Strike-off level and remo
	any excess material where required, before it hardens. Option 2: If applied generously, sealant will overflow out of joint. Allow material to completely harden. Applet heat with an industrial heating gun to soften cured resin. Shave Sikadur [®] 51 SL with a sharp razor to lew with the surfaces of the concrete that define the control joint.
Limitations	 Do not thin. Addition of solvents may prevent proper cure. Substrate temperature should be 40°F (4°C) minimum and rising. For best results, materials should be maintained between 65°-75°F (18°-24°C) during application. Do not apply through standing water. Minimum age of concrete is 28 days. Materials are a vapor barrier after cure. Concrete or masonry must be tested for water-vapor transmission prior to application. Not designed for use under constant immersion in water or other liquids. Do not use in expansion (moving) joints. For application in non-moving joints only. The ultimate performance of Sikadur® 51 SL depends upon many factors, [i.e., proper joint design, ther mally stable areas (concrete slab), etc.]. Sikadur® 51 SL should be installed full depth when sealing construction/control joints. Material should not be applied earlier than 28 days after new concrete is placed. A 60-90 day cure is recommended. Sikadur® 51 SL may change color over time, especially when exposed to ultraviolet rays, artificial heater or intense lighting. For applications other than sealing of joints, consult Sika Technical Service prior to use.
IN Sł P4 TC	RIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AN STRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DA HEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE D ARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATIO D READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CU ENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.
For	P CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE OF further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to all Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sh proving the product in access of comprenence of UCEPE AND ACT AND AC
Pric Dati mer for o	ore using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887. or to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Prod a Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Dep at at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruct each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to duct use.
SIK the Buy EXF SH4 THE SAL	A warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all ris er's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANT PRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Si LL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE F USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHE E OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR
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Phone: 52 442 2385800 Fax: 52 442 2250537

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Product Data Sheet Edition 5.13.2016 Sikasil-728 NS

Sikasil[®]-728 NS

Non-sag, ultra low modulus, highway/parking garage, neutral cure silicone sealant

Description	silicone sealant. Meets th	performance, non-sag. one-component , ultra he requirements of ASTM D-5893: ASTM C-920 ith ultra low Shore Hardness: TT-S-00230C, 7), Type S, Grade NS, Class 100/50,
Where to Use	Construction Applicati Highway joints Bridges Stadiums Parking garages Plaza decks Driveways Decks Expansion joints Saw cut joints Substrate Concrete, steel, glass,	ion , aluminum, ceramic, masonry, brick, stone ar	nd granite
Advantages	 Excellent flexibility for Bonds to most subs Ready to use, labor Non sag, excellent for All season ease of a 	or extreme high and low temperature conditio or dynamic joint movement trates without priming; best performance obta cost reduction for vertical joints application all types of concrete joints	
Packaging		ili; 52 gal (197 l) in 55 gal drum. 29 oz. cartridge	e/12 per case.
	TEMPERATURE, APPLICAT Shelf Life Storage Conditions Colors <u>Uncured Properties at 1</u> Cure Time (MNA Metho Slump (ASTM D-2202) Skin-over Time (MNA M Tack Free Time (ASTM Extrusion Rate (ASTM Rheological, Vertical (A VOC Content Service Temperature	Adh Method) C-679) C-1183 modified) ASTM C-639) 7 days at 77°F (25°C), 50% R.H. ASTM C-639) STM D-412) Shore OO (ASTM C-661 & ASTM D-2240) Shore A (ASTM C-661 & ASTM D-2240) D-412) -794) M D-412) ss, (ASTM C-719) e	TIONS AND CURING CONDITIONS. s at or below 90°F (32°C), shelf life is one s, remove prior to use.
	-	e s obtained under laboratory conditions. Reasonable	



Coverage	1 ga	llon: Yield	l in Linea	r feet		2	9 oz Cartri	lge: Yield	n Linear f	eet	1
)epth	1/4"	3/8"	1/2"		Depth	1/4"	3/8"	1/2"	
		1/4"	307.9				1/4"	69.8			
		3/8"	205.3	136.8			3/8"	46.5	31.0		
		1/2"	153.9	102.6	77.0		1/2"	34.9	23.3	17.4	1
	Width	3/4"	102.6	68.4	51.3	4+12	3/4"	23.3	15.5	11.6	
	1	1"			38.5	1	\$ 1"			8.7	•
		1.25"			30.8		1.25"	1		7.0	1
		1.5"			25.7		1.5"			5.8	-
How to Use							1				
Installation	mei The (25 Joi	nt of +2 maxin .4 mm) nt Bac	25% ar num de , do no king: ⁻	nd -25% epth is ot exce To con	% at tin 1/2 inc ed 1/2 trol joir	ne o h (1 inch nt de	f installa 3 mm) a (13 mn pth, us	ation. T and the n) in de e close	he dep minimu pth. d cell p	th of th um is 3/ polyethy	be designed for a recommended joint mov se sealant should be 1/2 the width of the join /8 inch (10 mm). For joints greater than 1 in ylene or non-gassing polyolefin backer rod.
											breaker tape to prevent three-sided adhesio o not compress more than 40%.
Surface Preparati	i on The	substr	ate mu	st be c	lean, di	y, fro	ost free,	sound	and free	e of any	y oils, greases or incompatible sealers, paints
	coa	tings th	at may	interfe	re with	adh	esion.				
	Nor	ו-poro	us sub	strates	s – for	clear	ning nor	-porous	s substr	ates, u	ound surface free of contamination and laitanc se two rag wipe method using xylene or an a alant application.
Primer	whe	en horiz ults and	zontal j d propo	oints a osed ap	ire prin oplicati	ned. on m	Test by	applyir . Refer	ng the s	sealant	of a primer; however, best results are obtain and/or primer sealant combination to confi Data Sheet for Sikasil Primer 2100 and conta
Application	unti into reco sha tool Stri	l prepa the join ess 1/4 pe and ing. Re	ination nt. App inch (maxin emove ow the	work h ly the s 6 mm) num ac excess solver	as bee sealant . For h lhesior s seala	n co so tl ighw n. Dr nt fr	mpleted nat it is i vay joint y tooling om sub	d. Apply recesse rs, rece g is rece strate v	sealar d 1/8 ir ss 1/2 ommen vhile ur	nt using nch (3 m inch (13 ided. D ncured	ing equipment. Do not open product contair g consistent, positive pressure to force seala nm) below the surface. For parking deck join 3 mm). Tool sealant to create a concave jo O NOT use soapy water or other liquids wh using a commercial solvent, such as xyler tions for use. Cured sealant may be remov
Limitations		Do not	allow	sealan			n contac				
	:	Not inte Sealan clean. Not rec Test ree Do not	ended It may Contac comme comme apply	for imr be app ct Tech ended f ended f to subs	nersior lied be nical S or strue or abse strates	n. Iow Servie ctura orpti that	freezing ce for m al glazin	g tempe lore info g applio ces suo bil, plasi	ratures ormatio cations ch as gr	s if subs n. ranite, li	thane sealants during cure. strates are completely dry, frost free and limestone or marble where staining may occu /ent.
											and cure rates.
							nonths				
	INSTRUC SHEET W PARTMEI TO READ	TIONS HICH A NT AT 8 AND F	ON TH RE AV 00.933. OLLOV	E PROI AILABL 7452 N(V THE V	DUCT'S E ONL DTHING VARNIN	MO INE CO IGS	ST CUR AT HTTP NTAINE AND INS	RENT P ://USA.S D IN AN STRUCT	RODUC SIKA.CO (SIKA I IONS F	T DATA OM/ OR MATERI OR EAC	AYS READ AND FOLLOW THE WARNINGS AN A SHEET, PRODUCT LABEL AND SAFETY DA' BY CALLING SIKA'S TECHNICAL SERVICE D IALS RELIEVES THE USER OF THE OBLIGATIO CH SIKA PRODUCT AS SET FORTH IN THE CU HEET PRIOR TO PRODUCT USE.
	KEEP CONTAI	NER TIGHT	'LY CLOSE	D. KEEP C	OUT OF RE	ACH O	F CHILDRE	N. NOT FOF	INTERNA	LCONSUM	IPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ON
	actual Safet	y Data Sł	heets co	ntaining	physica	l, eco	logical, to	xicologi	al and o	ther safe	disposal of chemical products, users should refer to ty related data. Read the current actual Safety Data Sh iternational 703-527-3887.
	Prior to each Data Sheet, ment at 800-	n use of a product 933-7452 a produc	any Sika label an 2. Nothin	product, d Safety g contai	the use Data Sh ned in a	r mus eet wi ny Sik	t always r hich are a a materia	ead and f vailable o Is relieve	ollow the online at s the use	warning http://usa er of the o	gs and instructions on the product's most current Prod a.sika.com/ or by calling Sika's Technical Service Dep obligation to read and follow the warnings and instruct d Safety Data Sheet prior to
	the current I Buyer's sole EXPRESS O SHALL NOT THE USE OF SALE OF S CALLING 20	Product I R IMPLIE BE LIAB THIS PR IKA PR(11-933-88	Data She shall be ED SHAL LE UND ODUCT ODUCTS 800.	et if use limited t L APPLY ER ANY N A MAN ARE S	d as dire o the pui / INCLUI LEGAL T INER TO	cted v chas DING HEOI INFR	vithin she e price or ANY WAF RY FOR S NGE ON /	If life. Us replacem RANTY (PECIAL C ANY PATE	er detern ent of pr OF MERC R CONS NT OR A	nines suit oduct exc HANTAB EQUENT NY OTHE	facturing defects and to meet the technical properties tability of product for intended use and assumes all ris clusive of labor or cost of labor. NO OTHER WARRANT 3ILITY OR FITNESS FOR A PARTICULAR PURPOSE. SI TAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE F R INTELLECTUAL PROPERTY RIGHTS HELD BY OTHE SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR
R	Visit our w				entere	For #	ne locatio		nearest	Sika ealo	1-800-933-SIKA NATIONWIDE es office, contact your regional center.
ka	Sika C 201 Po	orporati Iito Aven Irst, NJ 0	on iue)7071		Sika Ca 601 Del Pointe C Quebec	nada mar A Claire	Inc. venue		Sika M Carrete Fracc.	exicana ra Libre Industrial	S.A. de C.V. Celaya Km. 8.5 Il Balvanera Jueretaro

Product Data Sheet Edition 6.8.2016 Sikasil-728 RCS

Sikasil[®]-728 RCS

Two-part, self-leveling, rapid cure, ultra low modulus, horizontal application, neutral cure silicone sealant

Description	Sikasil-728 RCS (Rapid Cure System) is a self-lev	eling two-component very rapid ours, ultra low module
		the requirements of ASTM C-920, Type M, Grade P, Clas nd various AASHTO reports and state DOT approvals.
Where to Use	Construction Application Horizontal expansion joints Highway and bridge joints Saw cut joints - new and remedial Plaza decks Parking decks Bridges Airports Stadiums Driveways Location Horizontal Interior and exterior Above grade or on grade Substrate Concrete, steel, glass, aluminum, tile, ceramic, m	nasonry, brick, stone and granite
Advantages	 No tooling, less labor 	
-	 Excellent flexibility for extreme high and low terr Excellent flexibility for dynamic joint movement Bonds to most substrates without priming Open to traffic in one hour All season ease of application Good contact/adhesion with hard to reach areas Ideal for cold climates Excellent for use on runways and tarmacs Jet fuel resistant 	
	 Resistant to road salts 	
Packaging		unit (34.11 L) – 2 pails each containing 4.5 gal (17 L); 104 (197.08 L)
Packaging	40 fl. oz. unit - 2, 20 oz. sausages/20 per case; 9 gal gal unit (394.16 L) –2 drums each containing 52 gal (Typical Data RESULTS MAY DIFFER BASED UPON STATISTICAL VARIAT TEMPERATURE, APPLICATION METHODS, TEST METHODS Shelf Life When stored in the original, uno skin may form in pails and drum Storage Conditions Colors Limestone and Charcoal Gray (M Uncured Properties at 77°F (25°C), 50% R.H. Cure Time (MNA Method)	(197.08 L) TONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, S, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. uppened containers at or below 90°F (32°C), shelf life is one year. A product is, remove prior to use. It emperatures at or below 90°F (32°C). when Part A, dark gray and Part B, white, are mixed). 90% in 1 hr.
Packaging	40 fl. oz. unit - 2, 20 oz. sausages/20 per case; 9 gal gal unit (394.16 L) –2 drums each containing 52 gal (Typical Data RESULTS MAY DIFFER BASED UPON STATISTICAL VARIAT TEMPERATURE, APPLICATION METHODS, TEST METHODS Shelf Life When stored in the original, uno skin may form in pails and drum Storage Conditions Colors Limestone and Charcoal Gray (Mathematical Contents) Uncured Properties at 77°F (25°C), 50% R.H.	(197.08 L) TONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, S, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. uppened containers at or below 90°F (32°C), shelf life is one year. A product is, remove prior to use. It emperatures at or below 90°F (32°C), when Part A, dark gray and Part B, white, are mixed).
Packaging	40 fl. oz. unit - 2, 20 oz. sausages/20 per case; 9 gal gal unit (394.16 L) –2 drums each containing 52 gal (Typical Data RESULTS MAY DIFFER BASED UPON STATISTICAL VARIAT TEMPERATURE, APPLICATION METHODS, TEST METHODS Shelf Life When stored in the original, uno skin may form in pails and drum Storage Conditions Store in unopened containers at Colors Limestone and Charcoal Gray (M Uncured Properties at 77°F (25°C), 50% R.H. Cure Time (MNA Method)	(197.08 L) TONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, S, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. upened containers at or below 90°F (32°C), shelf life is one year. A product is, remove prior to use. It temperatures at or below 90°F (32°C). when Part A, dark gray and Part B, white, are mixed). 90% in 1 hr. 10 min.
Packaging	40 fl. oz. unit - 2, 20 oz. sausages/20 per case; 9 gal gal unit (394.16 L) –2 drums each containing 52 gal (Typical Data RESULTS MAY DIFFER BASED UPON STATISTICAL VARIAT TEMPERATURE, APPLICATION METHODS, TEST METHODS Shelf Life When stored in the original, uno skin may form in pails and drum Storage Conditions Store in unopened containers at Limestone and Charcoal Gray (M <i>Uncured Properties at 77°F (25°C), 50% R.H.</i> Cure Time (MNA Method) Skin-over Time (ASTM C-1183 modified, Type S) Rheological, Vertical (ASTM C-639) VOC Content Service Temperature <i>Cured Properties at 77°F (25°C), 50% R.H.</i> Movement Capability & Bond Durability (ASTM C-719) (glass, aluminum and concrete)	(197.08 L) TONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, 5, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. spened containers at or below 90°F (32°C), shelf life is one year. A product is, remove prior to use. t temperatures at or below 90°F (32°C). when Part A, dark gray and Part B, white, are mixed). 90% in 1 hr. 10 min. 25 min. 50 g/min. 1/8° orifice @ 50 psi Specific Gravity 1.25 - 1.35 self-leveling @ 120°F (49°C) 2.4% by wt., 30 g/l, 0.25 lbs/gal -80° to 350°F (-62.2° to 176.6°C) +100%, -50%
Packaging	40 fl. oz. unit - 2, 20 oz. sausages/20 per case; 9 gal gal unit (394.16 L) –2 drums each containing 52 gal (Typical Data RESULTS MAY DIFFER BASED UPON STATISTICAL VARIAT TEMPERATURE, APPLICATION METHODS, TEST METHODS Shelf Life When stored in the original, uno skin may form in pails and drum Storage Conditions Store in unopened containers at Colors Limestone and Charcoal Gray (v <i>Uncured Properties at 77°F (25°C), 50% R.H.</i> Cure Time (MNA Method) Skin-over Time (MNA Method) Tack Free Time (ASTM C-679) Extrusion Rate (ASTM C-679) Extrusion Rate (ASTM C-639) VOC Content Service Temperature <i>Cured Properties after 7 days at 77°F (25°C), 50% R.H.</i> Movement Capability & Bond Durability (ASTM C-719) (glass, aluminum and concrete) Elongation at Break (ASTM D-412) Hardness, Shore OO (ASTM C-661 & AST	(197.08 L) TONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, 5, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Ipened containers at or below 90°F (32°C), shelf life is one year. A product is, remove prior to use. It temperatures at or below 90°F (32°C). when Part A, dark gray and Part B, white, are mixed). 90% in 1 hr. 10 min. 25 min. 50 g/min. 1/8° orifice @ 50 psi Specific Gravity 1.25 - 1.35 self-leveling @ 120°F (49°C) 2.4% by wt., 30 g/l, 0.25 lbs/gal -80° to 350°F (-62.2° to 176.8°C) +100%, -50% > 1000% TM D-2240) 50 ± 5
Packaging	40 fl. oz. unit - 2, 20 oz. sausages/20 per case; 9 gal gal unit (394.16 L) –2 drums each containing 52 gal (Typical Data RESULTS MAY DIFFER BASED UPON STATISTICAL VARIAT TEMPERATURE, APPLICATION METHODS, TEST METHODS Shelf Life When stored in the original, uno skin may form in pails and drum Storage Conditions Store in unopened containers at Colors Limestone and Charcoal Gray (M <i>Uncured Properties at 77°F (25°C), 50% R.H.</i> Cure Time (MNA Method) Skin-over Time (ASTM C-679) Extrusion Rate (ASTM C-1183 modified, Type S) Rheological, Vertical (ASTM C-639) VOC Content Service Temperature <i>Cured Properties at 77°F (25°C), 50% R.H.</i> Movement Capability & Bond Durability (ASTM C-719) (glass, aluminum and concrete) Elongation at Break (ASTM D-412)	(197.08 L) TONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, 5, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Ipened containers at or below 90°F (32°C), shelf life is one year. A product is, is, remove prior to use. It temperatures at or below 90°F (32°C). when Part A, dark gray and Part B, white, are mixed). 90% in 1 hr. 10 min. 25 min. 50 g/min. 1/8° orifice @ 50 psi Specific Gravity 1.25 - 1.35 self-leveling @ 120°F (49°C) 2.4% by wt., 30 g/l, 0.25 lbs/gal -80° to 350°F (-62.2° to 176.8°C) +100%, -50% > 1000% TM D-2240) 50 ± 5



Coverage

20 c	z Sausag	e: Yield in	Linear fe	et
)epth	1/4"	3/8"	1/2"
	1/4"	48.1		
	3/8"	32.1	21.4	
_	1/2"	24.1	16.0	12.0
Width	3/4"	16.0	10.7	8.0
	1"			6.0
	1.25"			4.8
	1.5"			4.0

1 ga	1 gallon: Yield in Linear feet									
)epth	1/4"	3/8"	1/2"						
	1/4"	307.9								
	3/8"	205.3	136.8							
	1/2"	153.9	102.6	77.0						
Width	3/4"	102.6	68.4	51.3						
[1"			38.5						
	1.25"			30.8						
	1.5"			25.7						

How to Use Installation

Primer

Joint Design: The number of joints and the joint width may be designed for high movement capability. For joints one to three inches in width, the sealant will accept movements +100% and -50% and for three to four inches in width, the sealant will accept movements of $\pm50\%$ of joint width at time of installation. The depth of the sealant should be 1/2 the width of the joint. The minimum depth is 1/4 inch (6 mm) and the maximum is 1/2 inch (12 mm). For joints greater than 1 inch (25.4 mm), do not exceed 1/2 inch (6 mm) in depth

Joint Backing: To control joint depth, use closed cell polyethylene or non-gassing polyolefin backer rod. If joint depth does not allow for backer rod, use polyethylene bond breaker tape to prevent three-sided adhesion. Closed cell backer rod should be 25% larger than joint width; do not compress more than 40%. Never use open cell rod in on grade horizontal joints.

Surface Preparation The substrate must be clean, dry, frost free, sound and free of any oils, greases or incompatible sealers, paints or coatings that may interfere with adhesion.

Porous Substrates - clean by mechanical methods to expose a sound surface free of contamination and laitance. Non-porous substrates - for cleaning non-porous substrates, use two rag wipe method using xylene or an approved commercial solvent. Allow solvent to evaporate prior to sealant application.

Sikasil-728 RCS is designed to obtain adhesion without the use of a primer; however, best results are obtained when horizontal joints are primed. Test by applying the sealant and/or primer sealant combination to confirm results and proposed application methods. Refer to Technical Data Sheet for Sikasil Primer and contact Technical Service for additional information.

Application Apply sealant using consistent, positive pressure to force sealant into the joint. Apply the sealant so that it is joints, recess 1/4 inch (3 mm) below the surface. For parking deck joints, recess 1/4 inch (6 mm). For highway joints, recess 1/4 inch (13 mm). Sikasil-728 RCS is self-leveling - no tooling is needed. DO NOT use soapy water or other liquids. Consult full application guide for further information. Sikasil-728 RCS will obtain adhe-sion to aged, cured asphalt. Never use on newly poured asphalt. Conduct a field test to document and confirm adhesion under actual jobsite conditions.

Removal Remove excess sealant from substrate while uncured using a commercial solvent, such as xylene according to the solvent manufacturer's warnings and instructions for use. Cured sealant can only be removed by mechanical means Limitations

Do not allow sealant to come in contact with solvent during cure.

Do not allow sealant to come in contact with curing polyurethane sealants during cure.

- Not intended for immersion. Sealant may be applied below freezing temperatures if substrates are completely dry, frost free and clean. Contact Technical Service for more information.
- -Contact Technical Service prior to using in joints over three inches (76 mm) wide.
- Not intended for structural glazing.
- Test recommended for absorptive surfaces such as limestone, granite or marble where staining may occur.
- Do not apply to substrates that bleed oil, plasticizers or solvent.
- Do not apply to damp or wet substrates.
- Lower temperature and humidity will extend tack free and cure rates.
- Allow treated wood to age six months before application.
- Brass and copper may discolor. Test apply prior to application

Test sensitive substrates, such as mirror backings for compatibility before use.

PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE

KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY.

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart-ment at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.

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Product Data Sheet Edition 5.13.2016 Sikasil-728 SL

Sikasil[®]-728 SL

Self-leveling, ultra low-modulus, highway/parking garage, neutral cure silicone sealant

Description	Sikasil-728 SL is a self-leveling, one-component, ultra low modulus, e ant. Meets the requirements of ASTM D-5893; ASTM C-920, Type S, A, O with an ultra low Shore Hardness; TT-S-00230C, Type I, Class A	Grade P, Class 100/50; Use T, M, G,
Where to Use	Construction Application Highway joints Bridges Stadiums Parking garages Plaza decks Driveways Decks Expansion joints Saw cut joints Substrate Concrete, steel, glass, aluminum, tile, ceramic, masonry, asphalt, b 	prick, stone and granite
Advantages	 No tooling, less labor Durable Ideal for cold climates Excellent flexibility for extreme high and low temperature conditio Excellent flexibility for dynamic joint movement Bonds to most substrates without priming including aged asphalt Ready to use All season ease of application Good contact/adhesion with hard to reach areas Excellent for use on runways and tarmacs Jet fuel resistant Resistant to road salts 	
Packaging	4.5 gal (17 L) in a 5 gal pail; 52 gal (197 L) in 55 gal drum; 29 oz. cartridg	pes/12 per case.
	Typical Data RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDIT Shelf Life 12 months in original unopened container. A procorremove prior to use. Storage Conditions Store in unopened containers at temperatures at Colors	TIONS AND CURING CONDITIONS. duct skin may form in pails and drums,
	Uncured Properties at 77°F (25°C), 50% R.H.	
	Cure Time (MNA Method)	1/16" / 24 hours
	Skin-over Time (MNA Method)	60 min.
	Tack Free Time (ASTM C-679)	115 min.
	Extrusion Rate (ASTM C-1183 modified) Rheological, Vertical (ASTM C-639) VOC Content Service Temperature <u>Cured Properties after 7 days at 77°F (25°C), 50% R.H.</u>	900 g/min. 1/8" orifice @ 90 psi self-leveling @ 120°F (49°C) 2.27% by wt., 29 g/L, 0.24 lbs/gal -80° to 350°F (-62.2° to 176.6°C)
	Movement Capability (ASTM C-719)	+100%, -50%
	Elongation at Break (ASTM D-412)	1100%
	Hardness Shore OO (ASTM C-661 & ASTM D-2240)	40
	Shore A (ASTM C-661 & ASTM D-2240)	3-5
	Stress at 100% (ASTM D-412)	30 psi (0.21 MPa)
	Peel Strength (ASTM C-794)	25 pli
	Tensile Strength (ASTM D-412)	100 psi (0.69 MPa)
	Bond Durability on glass, (ASTM C-719) aluminum and concrete	+100%, -50%
	Weathering Resistance	Excellent
	Test results are averages obtained under laboratory conditions. Reaso	nable variations can be expected.



Alle

Coverage	29 0	oz Cartrid	ge: Yield i	n Linear	feet	1	allon: Yiel	d in Linea	r feet		J
	[Depth	1/4"	3/8"	1/2"		Depth	1/4"	3/8"	1/2"]
		1/4"	69.8	ĺ		1	1/4"	307.9	İ	1	1
		3/8"	46.5	31.0	1	1	3/8"	205.3	136.8	1	1
		1/2"	34.9	23.3	17.4	1	1/2"	153.9	102.6	77.0	1
	Width	3/4"	23.3	15.5	11.6	4+P	3/4"	102.6	68.4	51.3	1
	≥	1"			8.7	≥	1"			38.5	1
		1.25"			7.0	1	1.25"			30.8	4
		1.5"			5.8	1	1.5"			25.7	4
How to Use		1.5			3.0		1.5			23.7	
Surface Preparatio	+25 dept exce Join does	% and th is 1/2 eed 1/2 t Backi s not a	-25% a 2 inch (2 inch (1 ng: To c llow for	t time 13 mm 3 mm control	of insta) and t) in dep joint de er rod, u	llation. he min th. pth, us use po	The dep imum is e closec yethyler	oth of th 3/8 ind 1 cell pc ne bond	ne seala ch (10 r olyethyle d break	ant sho mm). Fo ene or r ker tape	signed for a recommended joint movement uld be 1/2 the width of the joint. The maximu or joints greater than 1 inch (25.4 mm), do r non-gassing polyolefin backer rod. If joint dep to prevent three-sided adhesion. Closed c more than 40%
	The	substr		st be c	ean, dr	y, frost	free, sc				more than 40%. bils, greases or incompatible sealers, paints
		0	,					hods to	expos	e a sou	Ind surface free of contamination and laitanc
	Non	-porou	s substi	rates –	for clea	aning n		us subs	strates,	use two	o rag wipe method using xylene or an approve
	hori: prop	zontal j oosed a	oints ar	e prim ion me	ed. Tes	t by ap	plying th	ne seal	ant and	d/or prin	imer; however, best results are obtained who ner sealant combination to confirm results a ikasil Primer and contact Technical Service f
Application	until into rece no t cure seal	l prepa the join ess 1/4 ooling e. This lant join	ration (nt. Appl inch (6 is need conditi nt. Sika	work h y the s 3 mm). ded. It on doe asil-728	as bee ealant For hig is typic es not a 3 SL wi	n com so tha ghway al tha affect f Il obta	bleted. / it is rec joints, r 728 SI he time n adhe	Apply s essed ecess may n the su sion to	ealant 1/8 inc 1/2 inc retain s irface j aged,	using o th (3 mr th (13 m some re joint ca cured a	g equipment. Do not open product contain consistent, positive pressure to force seala n) below the surface. For parking deck join m). Sikasil-728 SL is self leveling therefor esidual surface tack in its first 10-14 days n be open to service in a properly recessa asphalt. Never use on newly poured aspha tual jobsite conditions.
Removal	low	solven	t manu	facture	er's ins	tructio	te while ns for u moved	se and	warnir	nğs. Cu	nmercial solvent, such as xylene. Strictly for red sealant may be removed by mechanic ns.
Limitations							ontact v				ure. ane sealants during cure.
	•	Not inte	ended t	for imr	nersior	1.			0.		3
							ezing te for mor				rates are completely dry, frost free and
	• • •	Not inte	ended t	for stru	ictural	glazing	J.				nestone or marble where staining may occu
		Do not	apply t	o surfa	aces th	aṫ will	be pain	ted.	0		0,
		Do not	apply t apply t	o subs	strates	that bl	eed oil,	plastic	izers o	or solve	nt.
								end tac	k free a	and cur	re rates.
							nths be				ication.
	•	Test se	nsitive	subst	rates fo	r com	batibility	/ before	é use.		
	• 1	Due to	the ver	ry low	tensile	streng	th of as	phalt a	and pos	ssibility	that asphalt may fail cohesively within
ī											alt joints. ' <mark>S READ AND FOLLOW THE WARNINGS AN</mark>
	NSTRUC SHEET W PARTMEN TO READ RENT PRO	TIONS HICH A IT AT 80 AND FO ODUCT	ON THE RE AVA 00.933.7 OLLOW DATA S	E PROI ALABL 452 NO THE V SHEET,	DUCT'S E ONLI DTHING VARNIN PRODI	MOST NE AT CONT IGS AN JCT LA	CURRE HTTP:// AINED II D INSTF BEL AN	NT PROUSA.SII	ODUCT KA.COM SIKA M/ NS FOI ETY DA	DATA S M/ OR B ATERIA R EACH TA SHE	SHEET, PRODUCT LABEL AND SAFETY DAT Y CALLING SIKA'S TECHNICAL SERVICE D LS RELIEVES THE USER OF THE OBLIGATIC I SIKA PRODUCT AS SET FORTH IN THE CU ET PRIOR TO PRODUCT USE.
F	or further i ctual Safety	nformati / Data Sł	ion and a neets cor	advice r ntaining	egarding physica	transp , ecolog	ortation, I ical, toxic	nandling cological	, storage and oth	e and dis er safety	sposal of chemical products, users should refer to t related data. Read the current actual Safety Data She rnational 703-527-3887.
D	ata Sheet, hent at 800-	product 933-7452	label and 2. Nothin	l Safety g contai	Data She ned in ar	eet whic ny Sika r	n are avai naterials i	lable on elieves f	ine at ht	tp://usa.s of the ob	and instructions on the product's most current Produ sika.com/ or by calling Sika's Technical Service Depa ligation to read and follow the warnings and instructi Safety Data Sheet prior to product use.
	ne current P Suyer's sole XPRESS O HALL NOT HE USE OF ALE OF SIKA Visit our we	Product I remedy R IMPLIE BE LIAB THIS PR APRODU absite at	Data She shall be ED SHAL LE UNDE ODUCT I CTSARE t usa.sik	et if use limited t L APPLY R ANY I N A MAN SUBJEC (a.com	d as dire o the pur (INCLUE LEGAL T INER TO CTSIKA'S	cted with chase p DING AN HEORY INFRING TERMS	in shelf li rice or rep Y WARRA OR SPE E ON ANY ND CONE	ife. User blacemer NTY OF CIAL OR Y PATEN DITIONS C	determin t of proc MERCH CONSEC T OR AN DF SALE	nes suita duct exclu ANTABIL QUENTIA Y OTHER AVAILABL	cturing defects and to meet the technical properties billity of product for intended use and assumes all risk usive of labor or cost of labor. NO OTHER WARRANTII ITY OR FITNESS FOR A PARTICULAR PURPOSE. SH L DAMAGES. SIKA SHALL NOT BE RESPONSIBLE F(INTELLECTUAL PROPERTY RIGHTS HELD BY OTHER EATHTTP://USA.SIKA.COM/ORBY CALLING 201-933-880 1-800-933-SIKA NATIONWIDE office, contact your regional center.

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JIKā

Sikadur[®] 31, Hi-Mod Gel (1:1 Mix Ratio) High-modulus, high-strength, structural, epoxy paste adhesive

Description	strength, structural epo	• •	solids, solvent-free, moisture- rms to the current ASTM C-8	
Vhere to Use	 Grout bolts, dowels, 	and pins.	, wood, etc. to a maximum glu pressure-injection grouting.	ue line of ½ in. (3 mm).
			e as an epoxy mortar binder.	
	 As a pick-proof seal 	ant around windows, doors,	lock-ups etc. inside correction	nal facilities.
dvantages	 Suitable for potable Excellent adhesion t Paste consistency id Fast-setting and stress 	water contact, meets NSF/A	s, wood, and most structural r	
overage			e adhesive. 1 gal. (3.8 L) mixe ely 346 cu. in. (5,670 cm³) of	
ackaging	1 gal. and 3 gal. (11.4	_) units.		
	Typical Data (Ma	terial and curing condition	ns @ 73°F (23°C) and 50% R	.Н.)
			ONS DEPENDING UPON MIXING MET ACTUAL SITE CONDITIONS AND CU	
	Shelf Life	2 years in original, unopened	l containers	
	Storage Conditions	Store dry at 40°-95°F (4°-35°	°C). Condition material to 65°-85°	F (18°-29°C) before using.
	Color	Concrete gray		
	Mixing Ratio	Component 'A' : Component	'B' = 1:1 by volume	
	Consistency	Non-sag paste		
	Pot Life	Approximately 60 minutes @	273°F. (500 gram mass)	
	Tack-Free Time	1.5 - 2.5 hours at 30 mils. thi	ck	
	Tensile Properties (AS	-		
		-	(22.7 MPa)	
	Flexural Properties (AS			
	7 day Flexur	al Strength (Modulus of Rupture		
	_	nt Modulus of Elasticity in Bend		
	Shear Strength (ASTM		ar Strength 4,600 psi (31.7 M	MPa)
	Bond Strength (ASTM)	C-882) e to Hardened Concrete:		
		cure) 2,200 psi (15.2 M	Pa)	
		st cure) 2,400 psi (16.5 M	·	
	14 day (mo Hardened Concret	st cure) 2,900 psi (20.0 M	Pa)	
	2 day (dry cure		Pa)	
	Tensile Bond Strength	(Pull-off Method, Dyna, ASTM	C-1583-04)	
	2 day	420 psi (2.9 MPa))	
	Heat Deflection Tempe	ature (ASTM D-648) 7 day	(Fiber Stress Loading = 264 psi)	135°F (57°C)
	Water Absorption (AST	M D-570) 24 ho	our 0.07%	
	Compressive strength	(ASTM D-695) psi (MPa)		
	2 hou	40°F (4°C)* **	73°F (23°C)* **	90°F (32°C) * ** 450 (3.1)
	4 hou		800 (5.5)	10,500 (72.4)
	8 hou	r –	8,500 (58.6)	12,200 (84.1)
	16 ho	. ,	10,500 (72.4)	13,000 (89.6)
	1 day	6,000 (41.4)	13,000 (89.6)	15,000 (103.4)
	3 day	11,000 (75.8)	14,000 (96.5)	16,000 (110.3)
	7 day	12,900 (88.9)	15,000 (103.4)	16,000 (110.3)
	14 da	13,500 (93.0)	15,400 (106.1)	16,000 (110.3)
	28 da		16,000 (110.3)	16,000 (110.3)



PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

	Compressive Mo	dulus of Elasticity (ASTM D-695)	7 day	7.95 X 10⁵ psi	(5,485 MPa)			
	voc content	4.0 g/L (A+B)						
		nd tested at temperatures indicated.						
	** See Limitations	section for further information.						
How to Use								
Surface Preparation	 Surface must be clean and sound. It may be dry or damp, but free of standing water. Remove dust, laitance grease, curing compounds, impregnations, waxes, and any other contaminants. Preparation Work: Concrete - Should be cleaned and prepared to achieve a laitance and contaminant free open textured surface by blast cleaning or equivalent mechanical means. Steel - Should be cleaned and prepared thoroughly by blast cleaning or other equivalent mechanical means. 							
Mixing	Pre-mix each com pail or appropriately 600 rpm) drill until u material should be by loose volume of	Pre-mix each component. Proportion 1 part Component 'B' to 1 part Component 'A' by volume into a clear pail or appropriately sized mixing container. Mix thoroughly for 3 minutes with Sika paddle on low-speed (40 600 rpm) drill until uniform in color. Mix only that quantity which can be used within its pot life. Prior to mixin material should be conditioned to 65°-85°F (18°-29°C). To prepare an epoxy mortar, slowly add up to 1 part by loose volume of an oven dried aggregate, to 1 part of the mixed Sikadur [®] 31, Hi-Mod Gel, and mix un uniform in consistency.						
Application	As a structural adhesive - Apply the neat mixed Sikadur [®] 31, Hi-Mod Gel to the prepared substrates. We into the substrate for positive adhesion. Secure the bonded unit firmly into place until the adhesive has cure Glue line should not exceed 1/8-in. (3 mm).							
	To seal cracks for injection grouting - Place the neat mixed material over the cracks to be pressure inject and around each injection port. Allow sufficient time to set before pressure injecting. For interior vertical a overhead patching - Place the prepared mortar in void, working the material into the prepared substrate, fill the cavity. Strike off level. Lifts should not exceed 1-in (25 mm).							
	As a pick-proof sealant - Use automated or manual method. Apply an appropriate size bead of mater around the area being sealed. Seal with neat Sikadur [®] 31, Hi-Mod Gel.							
Limitations	 SHOULD NOT I WHERE ADHES PROFESSIONA Components of S Minimum substra Do not thin. Solv When preparing Maximum epoxy Epoxy mortar is f Minimum age of co Porous substrate Not for sealing co 	STATED THAT THIS PRODUCT IS AF BE USED IN SUSTAINED TENSILE SIVE FAILURE COULD RESULT IN A L PRIOR TO USE. Driginal 2:1 mix ratio formulation of Sik ikadur® 31, Hi-Mod Gel (NEW 1:1 Mix ate and ambient temperature 40°F (4°C ents will prevent proper cure. an epoxy mortar, use oven-dried aggree mortar thickness is 1 in. (25 mm) per I for interior use only. Material is a vapor procrete must be 21-28 days, depending up as must be tested for moisture-vapor tra- racks under hydrostatic pressure. product. Color may alter due to variat	LOAD ADHE A PUBLIC S adur [®] 31, Hi Ratio) formu c). egate only. iff. barrier after on curing and ansmission p	ESIVE ANCHORIN AFETY RISK. CC -Mod Gel cannot l lation. cure. drying conditions, fo rior to mortar appl	IG APPLICATIO INSULT A DESI De cross-mixed v or mortar application ications.			
IN S P T R KEE Foi act	PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND NSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE D PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE. SEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ON or further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to 1 tual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sh fore using the product. In case of emergency, call CHEMTREC at 1.800-424-9300, International 703-527-3887.							
Pri Da me for	or to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Produc ta Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depar nt at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instructio each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to duct use.							
tt B E S S S S	SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risk Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTI EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIK SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FC THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHER SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR E CALLING 201-933-8800.							
	it our website at usa.sika.	com		1-800-933-SIKA NA				

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C.P. 76920

Sikadur[®] Combiflex[®] SG System

High performance joint sealing system

Description	High performance joint sealing system for construction, expansion and connection joints as well as for cracks. When fixed to the joint, allows irregular and high movement in more than one direction, while maintaining a high quality seal				
	maintaining a high quality seal. The Sikadur Combiflex SG System consists of a modified flexible Polyolefin (FPO) waterproofing tape with advanced adhesion using Sikadur 31, Hi-Mod Gel (1:1 Mix Ratio).				
Where to Use	Sealing system for expansion, construction and connection joints, as well as for cracks in: Tunnels and culverts Hydroelectric power plants Sewage treatment plants Basements Water retaining structures and drinking water reservoirs Around iron, steel and concrete pipes Swimming pools Sealing of: Joints with extreme movement Building sections where varying settlement is expected Cracks Repair/reinstatement of leaking joint sealing systems such as: Waterbars Joint sealants, etc.				
	Typical Data (<i>Material and curing conditions 73°F (23°C) and 50% R.H.</i>) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.				
	Shelf life Combiflex Kit - 2 years in original, unopened containers.				
	Storage Conditions Store dry at 40°-85°F (4°-30°C.) Condition material to 65°-85°F before using.				
	ColorSikadur 31, Hi-Mod Gel (1:1 Mix Ratio), adhesive - light gray.FPO sheeting - concrete gray.				
	Typical Technical Data for Sikadur 31, Hi-Mod Gel (1:1 Mix Ratio), Adhesive:Pot LifeApproximately 60 minutes.Tack Free Time1.5 - 2.5 hours				
	Typical Technical Data for Combiflex SG: Tensile Properties (ASTM D-412) Tensile Strength > 1,740 psi (12 MPa) Elongation at Break > 600% Tear Resistance (ASTM D-624) Die C Tear Strength 69 lb/in. (12 N/mm) Low Temperature of Performance				
	Typical Technical Data for Sikadur Combiflex System: Peel Strength (ASTM D-903)				
	7 days Substrate, Concrete No loss of adhesion between the Tape and the Sikadur 31, Hi-Mod Gel (1:1 Mix Ratio), or the Sikadur 31, Hi-Mod Gel (1:1 Mix Ratio) and the concrete				
	Chemical Resistance Long term to: Water, lime water, cement water, seawater, salt solutions, domestic sewage, bitumen (accord- ing to EN 1548), bitumen emulsion coatings (staining possible), etc. Temporary to:				
	Light fuel oil, diesel, diluted alkali and mineral acids, ethanol, methanol, petrol, etc. Ozone Resistance				
	3 month Exposure Water/Ozone (3 ppm) - No Effect; Air/Ozone (2-300 ppm) - No Effect				
	For additional information on Sikadur 31, Hi-Mod Gel (1:1 Mix Ratio), consult Technical Data Sheet or call Technical Service.				
	PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AN INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DAT SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DI PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATIO				





Advantages	 Advanced adhesion, no activation of tape required Easy to install Suitable for both dry and damp concrete surfaces UL Listed for potable water applications Extremely flexible Performs well within a wide range of temperatures Excellent adhesion to many materials Weather and water resistant Approved for contact with potable water Good resistance to many chemicals Root resistant 				
Coverage	 Versatile system suitable for many difficult situations Sikadur Combiflex SG Tape - 82 lineal ft./roll. Sikadur 31, Hi-Mod Gel (1:1 Mix Ratio) - 40 lineal ft./ 				
	gal.				
Packaging	Kits: Pre-measured kits containing 4 in. wide by 20 ft. long Sikadur Combiflex SG tape, 60 oz. of Sikadur 31, Hi-Mod Gel (1:1 Mix Ratio). The components may be also be purchased separately: Sikadur Combiflex SG Tape - 4, 8 and 12 in. wide by 20 ft. long and 82 ft. long. Sikadur 31, Hi-Mod Gel (1:1 Mix Ratio) - 3 gal. units, and 1 gal. unit.				
How to Use					
Surface Preparatio	Surface must be clean and sound. It may be dry or damp but free of standing water. Remove dust, laitance, grease, curing compounds, impregnations, waxes, and any other contaminants. Preparation Work: Concrete - Should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by blastcleaning or equivalent mechanical means. Steel - Should be cleaned and prepared thoroughly by blastcleaning.				
Mixing	Surface must be clean and sound. It may be dry or damp but free of standing water. Remove dust, laitance, grease, curing compounds, impregnations, waxes, and any other contaminants. Preparation Work: Concrete - Should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by blastcleaning or equivalent mechanical means. Steel - Should be cleaned and prepared thoroughly by blastcleaning or other equivalent means.				
Application	Surface must be clean and sound. It may be dry or damp but free of standing water. Remove dust, laitance, grease, curing compounds, impregnations, waxes, and any other contaminants. Preparation Work: Concrete - Should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by blastcleaning or equivalent mechanical means. Steel - Should be cleaned and prepared thoroughly by blastcleaning				
Limitations	 Minimum surface temperature 40°F. Do not thin Sikadur 31, Hi-Mod Gel (1:1 Mix Ratio). Solvents will prevent proper cure. Maximum application thickness of epoxy is 1/8 in. Epoxy is a vapor barrier after cure. Cover plates over joint are required when using Sikadur Combiflex SG Tape in traffic areas. If joints are to be subjected to water pressure, the tape must be supported in the joint. Hard foam or joint sealant is recommended. For exposure to negative water pressure, the Sikadur Combiflex SG Tape must be secured with a steel plate fixed on one side. The Sikadur Combiflex SG Tape must be protected from mechanical damage. Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure. 				
IN SH PA TC	IOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND STRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA EET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE- RTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR- NT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.				
For actu befo Prio	P CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY. further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the ial Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet ore using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.				
men for e prod	a Sheet, product label and Safety Data Sheet which are available online at http://usā.sika.com/ or by calling Sika's Technical Service Depart- nt at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to duct use. A warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on				
the Buy EXP SHA THE SAL CAL	current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. er's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES RESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA ALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. E OF SIKA PRODUCT S ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY LING 201-933-8800.				
	it our website at usa.sika.com 1-800-933-SIKA NATIONWIDE gional Information and Sales Centers. For the location of your nearest Sika sales office, contact your regional center. Sika Canada Inc. Sika Corporation Sika Canada Inc. Sika Mexicana S.A. de C.V. C01 Polito Avenue 601 Delmar Avenue Pone: 800-933-7452 Pointe Claire Fax: 201-933-6225 Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792 Fax: 52 442 2250537 Sika, Sika Fear, and Sika Latex are registered trademarks. Printed in Canada.				

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Sikadur[®] 23, Lo-Mod Gel

Low-modulus, paste-consistency, epoxy resin binder

Description	Sikadur [®] 23, Lo-Mod Gel, is a 2-component, 100% solids, moisture-tolerant, low-modulus, non-sag paste-consistency, epoxy resin binder. It conforms to the current ASTM C-881 and AASHTO M-235 specifications.					
Where to Use	 Use as a binder for epoxy mortar repairs. As a pick-proof sealant around windows, doors, lock-ups, etc., inside correctional facilities, schools and institutions. 					
Advantages	 Non-sag consistency. Convenient easy to mix ratio A:B = 1:1 by volume. Moisture-tolerant epoxy adhesive binder. 					
Coverage	1 gal. of mixed Sikadur [®] 23, Lo-Mod Gel, when mixed with 1 part by loose volume of oven-dried aggregate, yields approximately 346 cu. in. of epoxy mortar.					
Packaging	4-gal. units					

Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life	2 years in original, unopened containers.					
Storage Conditions	Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F (18°-24°C) before using.					
Color	Concrete gray.					
Mixing Ratio	Component 'A':Component 'B' = 1:1 by volume.					
Consistency	Non-sag paste.					
Pot Life	Approximately 45 minutes. (200 gram mass)					
Tensile Properties Mortar 1:1 (ASTM D-638)14 dayTensile StrengthElongation at BreakModulus of Elasticity			2,400 psi (16.5 MPa) 1.0 % 6.1x10⁵ psi (4,206 MP	6.3%	2,000 psi (13.8 MPa) 6.3%	
Flexural Properties Mortar 1:1 (ASTM D-790)14 dayFlexural Strength (Modulus of Rupture)Tangent Modulus of Elasticity in Bending		Rupture)	3,900 psi (26.9 MPa) 6.8x10⁵ psi (4,688 MP	/ I \	4,800 psi (33 MPa) 4.71x10⁵ psi (3,247 MPa)	
Shear Strength Mortar 1:1 (ASTM D-732)14 dayShear Strength3,300 psi (22.7 MPa)3,000 psi (21 MPa)				1 MPa)		
Water Absorption Neat (ASTM D-570) 7 day (2 hour Boil) 0.4%						
Deflection Temperature Mortar 1:1 (ASTM D-648) 14 day [fiber stress loading = 66 psi (0.46 MPa)] 102°F (39°F)						
Bond Strength (ASTM C-882): Hardened concrete to hardened concrete2 day (dry cure)Bond Strength2,600 psi (17.9 MPa)14 day (moist cure)Bond Strength1,700 psi (11.7 MPa)						
Compressive Properties Mortar 1:1, (ASTM D-695) Neat Compressive Strength, psi (MPa) Neat 40°F* (4°C) 73°F* (23°C) 90°F* (32°C)						
8 hour -	. ,		3,500 (24.1)	-	-	
16 hour -		3,300 (22.7)	5,600 (38.6)	120 (0.83)	960 (6.6)	



How to Use Surface Preparation	Surface must be clean and s grease, curing compounds,					e dust, la
	Concrete - Should be cleaned by blastcleaning or equivale			laitance and contar	ninant free, open t	extured
	Steel - Should be cleaned a a shiny metal finish.	and prepared tho	oughly by	blastcleaning other	equivalent mecha	anical m
Mixing	Pre-mix each component. a clean pail. Mix thoroughly in color. Slowly add up to 1 Lo-Mod Gel, and mix until up	for 3 minutes with part by loose volu	n a Sika pa Ime of an c	ddle on a low-speed	d (400-600 rpm) d te to 1 part of mix	rill until u ed Sikad
Application	As a mortar - Apply the Sike from deepest to shallowest a			r using a trowel. We	ork material into s	urface. F
	As a pick-proof sealant - around the area being seale				appropriate size b	ead of n
	· · · · · · · · · · · · · · · · · · ·					
Limitations	 Do not thin, solvents will Use only oven-dried aggi Minimum substrate and a Porous substrates must t Material is a vapor barrie Minimum age of concrete 	egate. Imbient temperation be tested for mois r after cure.	ure 40°F (4 sture-vapor	transmission prior t		

1 day

3 day

100 (.69)

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4,500 (31.0)

5,600 (38.6)

5,700 (39.3)

5,800 (40.0)

1,600 (11.0)

1,800 (12.4)

1,300 (9.0)

2,900 (20.0)

KEEP CONTAINER TIGHTLY CLOSED, KEEP OUT OF REACH OF CHILDREN, NOT FOR INTERNAL CONSUMPTION, FOR INDUSTRIAL USE ONLY, FOR PROFESSIONAL USE ONLY.

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Sikaflex[®]-11 FC

One part advanced polyurethane, elastomeric sealant/adhesive

Description		e-component, gun-grade, adhesive and sealing compound of permanent elastic- material is based on a special moisture-cured polyurethane with an accelerated
Where to Use	As an elastic adhesi Cover plates, gas Acoustic ceiling til Floor moldings an Light weight cons Wood or metal an Roof tiles. As an elastic joint se Air ducts and high Containers, tanks	kets and coverings. es. d door sills. truction materials. d door frames. ealer for: n vacuum systems.
		igs in walls or floors for ducts, piling, etc.
	 Reservoirs or wat Aluminum fabrication 	er retaining structures.
	 Bolted lap joints. 	uon.
Advantages	polyester and acr	n on all cement-based materials, brick, ceramics, glass, metals, wood, epoxy, ylic resin. and water resistance.
	 Can be painted ov High durability. 	ver with water, oil, and rubber-based paints. (Preliminary tests recommended).
Chemical Resistance	<u> </u>	ter, weak acids, weak alkalis, sewerage, mineral oils, vegetable oils, fats, fuels.
		c solvents, paint thinner, strong acids, strong alkalis). Consult Technical Service for
Packaging	Disposable 10.1 fl. oz.	, moisture-proof composite cartridges, 12/case.
	RESULTS MAY DIFFER BASE	erial and curing conditions @ 73°F and 50% R.H.) ED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, NM METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. 12 months in unopened container. Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F
	Color	before using. White
	VOC Content	28.5 g/L
	Application Tempera	-
	Service Range	-40° to 170°F
	Curing Rate	Tack-free Time (TT-S-00230C) 1 to 2 hours depending on climate. Final Cure 3 to 5 days
	Recovery	ASTM C-719 >90%
		STM D-2240) 40-45
	Tensile Properties (A Tensile Stress Elongation at Brea	225 psi
	Lap-Shear Strength 73 F/50% RH	(ASTM D-1002) modified, glass substrate 165 psi
	Weathering Resistar	ice Excellent
	UCTIONS ON THE PRODUC T WHICH ARE AVAILABLE C	KA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND T'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA NLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE- IING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION
		ING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION RNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-

O READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE ${\sf CUR}$ RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

Coverage

10.1	oz Cartrio	lge: Yield	in Linear	feet
)epth	1/4"	3/8"	1/2"
	1/4"	24.3		
	3/8"	16.2	10.8	
	1/2"	12.1	8.1	6.1
Width	3/4"	8.1	5.4	4.0
	1"			3.0
	1.25"			2.4
	1.5"			2.0

How to Hoe

How to Use	
Surface Preparation	Clean all surfaces. Joint walls must be sound, clean, dry, frost-free, and free of oil and grease. Curing compound residues and any other foreign matter mustbe thoroughly removed. A roughened surface will also enhance bond.
Priming	Priming is not usually necessary for anodized aluminum, steel, non-absorbent materials such as glass, ceramics, stoneware and tiles. Most substrates only require priming if testing indicates a need or where sealant will be subjected to water immersion after cure. Consult Technical Service at 1-800-933-SIKA for additional information on priming.
Application	Recommended application temperatures: 40°-100°F. For cold weather application, condition material to 65°-75°F before using.
	Place nozzle of gun into bottom of the joint and fill entire joint. Keep the nozzle in the sealant; continue on with a steady flow of sealant preceding the nozzle to avoid air entrapment. Avoid overlapping of sealant to eliminate entrapment of air.
Tooling and Finishing	Tool as required. Joint dimension should allow for 1/4 inch minimum and 1/2 inch maximum thickness for sealant. Proper design is 2:1 width to depth ratio.
Removal	In case of spills of leaks, wear suitable protective equipment, contain spill, collect with absorbent material, and transfer to suitable container. Ventilate area. Avoid contact. Dispose of in accordance with current, applicable local, state, and federal regulations. In case of emergency, call chemtrec 1-800-424-9300.
Over Painting	Allow 5 day cure at standard conditions when using Sikaflex-11 FC in total water immersion situations and prior to painting.
Limitations	 Allow 5 day cure at standard conditions when using Sikaflex-11 FC in total water immersion situations and prior to painting. Avoid exposure to high levels of chlorine. (Maximum level is 5ppm). Maximum depth of sealant must not exceed 1/2 in.; minimum depth is 1/4 in. Maximum expansion and contraction should not exceed 12.5% of average joint width. Avoid contact with alcohol and other solvent cleaners during cure. Do not apply when moisture-vapor-transmission condition exists from the substrate as this can cause bubbling within the sealant. Use opened cartridges the same day. When applying sealant, avoid air-entrapment. Since system is moisture-cured, permit sufficient exposure to air. White color tends to yellow slightly when exposed to ultraviolet rays. The ultimate performance of Sikaflex-11 FC depends on proper application, good design and proper preparation of joint surfaces. Not for use in expansion joints. Heavier substrates may require additional support during the cure period. Do not use in contact with bituminous/asphaltic materials.
INSTRI SHEET PARTM TO REJ RENT I KEEP CON For furth actual Sa before us Prior to e Data She ment at 8	TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND UCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA I WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE- MENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION AD AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR- PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

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Product Data Sheet Edition 2.19.2015 SikaBond Construction Adhesive

SikaBond[®] Construction Adhesive

One part advanced polyurethane, elastomeric adhesive

Description	SikaBond Construction Adhesive is a one-component, gun-grade, adhesive and sealing compound of permanent elasticity. This dual-purpose material is based on a special moisture-cured polyure-thane with an accelerated curing time.
Where to Use	 As an elastic adhesive for: Paver caps, masonry veneer and Faux stone. Cover plates, gaskets and coverings. Acoustic ceiling tiles. Floor moldings and door sills. Light weight construction materials. Wood, metal, or plastic window and door frames. Roof tiles. As an elastic joint sealer for: Air ducts and high vacuum systems. Containers, tanks, and silos. Gaskets in openings in walls or floors for ducts, piling, etc. Reservoirs or water retaining structures. Aluminum fabrication. Bolted lap joints.
Advantages	 Excellent adhesion on all cement-based materials, brick, ceramics, glass, metals, wood, epoxy, polyester, acrylic resin, and plastics. Fast cure rate. Waterproof and water immersible after cure. Good weathering resistance. Non-corrosive. Can be painted over with water, oil, and rubber-based paints. (Preliminary tests recommended). High durability.
Coverage	10.1 fl. oz. cartridge seals 12.2 lineal ft. of 1/2 x 1/4 in. joint.
Packaging	10.1 fl. oz. cartridge seals 12.2 lineal ft (3.72 lin m) of 1/2 x 1/4 in. joint (1.27 x 0.64 cm); 29 oz. cartridge seals 35 lineal ft. (10.7 lin.m.) of 1/2 x 1/4 in. joint

Typical Data (*Material and curing conditions* @ 73°F (23°C) and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf life	10.1 oz 12 months in unopened container, 29 oz 12 months in unopened container
Storage Conditions	Store in dry warehouse conditions between 40°F and 80°F. For cold weather application, condition material to 65°-75°F before using.
Color	Gray
Application Temp	40° to 100°F
Service Range	-40° to 170°F
Final Cure	3 to 5 days
Weathering Resistance	Excellent
Chemical Resistance	Good resistance to water, weak acids, weak alkalis, sewer- age, mineral oils, vegetable oils, fats, and fuels. (Not resistant to organic solvents, paint thinner, strong acids, strong alkalis). Consult Technical Service for specific data.



Most substrates only require priming if testing indicates a need or where sealant will be subjected to water immersion after cure. Consult Technical Service at 800-933-7452 for additional information on priming. Clean all surfaces. Joint walls must be sound, clean, dry, frost-free, and free of oil and grease. Curing compound residues and any other foreign matter must be thoroughly removed.
Priming is not usually necessary for anodized aluminum, steel, non-absorbent materials such as glass, ceramics, stoneware and tiles. Most substrates only require priming if testing indicates a need or where sealant will be subjected to water immersion after cure. Consult Technical Service for additional nformation on priming.
Cut plastic tip to desired size and puncture airtight seal at base of tip. Force adhesive onto bonding surface. Use as spread, bead or for spot bonding. Recommended application temperatures: 40°-100°F.
Wait a minimum of 1 week and test for compatibility before painting.
Tack free in 1-2 hours, depending on climate. Final cure in 5-8 days.
 Allow a minimum of 1 week cure at standard conditions when using SikaBond Construction Adhesive in total water immersion situations and prior to painting. Avoid exposure to high levels of chlorine. (Maximum level is 5 ppm). Avoid contact with alcohol and other solvent cleaners during cure. Not for expansion joints.

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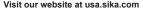
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Sikaflex[®] Sealant/Adhesive Primers

Sikaflex Primers 260, 429, and 449

Description	Sikaflex primers are special materials formulated to improve the bond of Sikaflex urethane sealants when applied to specific substrates.
Sikaflex Primer 260	Sikaflex Primer 260 promotes adhesion of urethane sealants to various metallic, non-metallic, and plastic substrates.
Sikaflex Primer 429	Sikaflex Primer 429 promotes adhesion to clean, sound, and dry concrete, masonry, Exterior Insulation Finish Systems (EIFS), and wood — including teak and mahogany.
Sikaflex Primer 449	Sikaflex Primer 449 is used to promote adhesion to pvc, solvent-based enamel, PPG's fluorocarbon Duranar-finish, and certain plastics such as ABS and Plexiglass.

Substrate	Primer Required	Recommended primer if necessary
Concrete and Masonry		
Concrete Block	No	Sikaflex 429 primer
Placed Concrete	No	Sikaflex 429 primer
Precast Concrete	No	Sikaflex 429 primer
Mortar	No	Sikaflex 429 primer
Grout	No	Sikaflex 429 primer
Brick	No	Sikaflex 429 primer
SikaTops	No	Sikaflex 429 primer
Stone		
Granite	No	Sikaflex 429 primer
Marble	No	Sikaflex 260 primer
Paints		
Acrylic Latex	No Bond	d Achieved
Emercoat 33	No Bond	d Achieved
DeSoto Fluoropon	No Bond	d Achieved
PPG Duracon S600	No Bond	d Achieved
Solvent-based Enamel	Yes	Sikaflex 449 primer
PPG Fluorocarbon	Yes	Sikaflex 449 primer
Duranar	Yes	Sikaflex 449 primer
PPG Polycron	Yes	Sikaflex 449 primer
Kynar	Yes	Sikaflex 449 primer
Siliconized Polyester	Yes	Sikaflex 260 primer
Alucobond	Yes	Sikaflex 260 primer
Plastics		
PVC	Yes	Sikaflex 449 primer
ABS	Yes	Sikaflex 449 primer
Plexiglass	Yes	Sikaflex 449 primer
Plexiglass DR	Yes	Sikaflex 449 primer
Lucite	Yes	Sikaflex 449 primer
Rovel Plastic	Yes	Sikaflex 449 primer

Sikaflex 260 primer
No Bond Achieved
No Bond Achieved
No Bond Achieved
Sikaflex 449 primer
Sikaflex 449 primer
Sikaflex 260 primer
Sikaflex 260 primer
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Typical Data (*Material and curing conditions 73°F and 50% R.H.*) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf life	6 months in original, unopened containers.
Storage Conditions	Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F
	before using.
Color	Clear



Where to Use	Most substrates require a prime after cure. Certain substrates do	, ,	need for it or where the sealant will be underwate ar all conditions.
Advantages	 Single-component, 	ready to use.	
Ū	 Easily applied by b 	rush, dauber, or spray	
Coverage	Following are average coverage	es, depending on poro	sity of substrate:
Ū.		age per pint (Liner ft	•
	260	••••	300-500
	429		300
	449		300-500
Packaging	Sikaflex 260 and 449 primers a	are available in pints, 6	/carton.
	Sikaflex 429 primer is available	in pints, 6/carton; and	gallons, 2/carton.
How to Use			
Surface Proparation	The key to good bonding with Si	ikaflov soalants/primo	re is surface proparation. Specifically, all surface
Surface Preparation	must be dry and free of dirt, great the joint contains old sealant, it a	ase, mold release age and all extraneous ma	rs is surface preparation. Specifically, all surface nts, loose mortar, laitance, and any foreign math terial must be removed and the substrate cleane atures of 40°F and rising. Surface must be frost
Surface Preparation	must be dry and free of dirt, great the joint contains old sealant, it a mechanical means. Apply prime	ase, mold release age and all extraneous ma ers at substrate temper	nts, loose mortar, laitance, and any foreign matte terial must be removed and the substrate cleane
	must be dry and free of dirt, grea the joint contains old sealant, it mechanical means. Apply prime Shake or stir primer well before	ase, mold release age and all extraneous ma ers at substrate temper	nts, loose mortar, laitance, and any foreign math terial must be removed and the substrate cleane atures of 40°F and rising. Surface must be frost ean, oil free surface with a brush, dauber or spra
	must be dry and free of dirt, grea the joint contains old sealant, it mechanical means. Apply prime Shake or stir primer well before	ase, mold release age and all extraneous ma ers at substrate temper using. Apply to dry, cle	nts, loose mortar, laitance, and any foreign math terial must be removed and the substrate cleane atures of 40°F and rising. Surface must be frost ean, oil free surface with a brush, dauber or spra ag sealant
	must be dry and free of dirt, great the joint contains old sealant, it a mechanical means. Apply prime Shake or stir primer well before Sikaflex Primer Dry ti	ase, mold release age and all extraneous ma ers at substrate temper using. Apply to dry, cle me before installin	nts, loose mortar, laitance, and any foreign math terial must be removed and the substrate cleane <u>atures of 40°F and rising. Surface must be frost</u> ean, oil free surface with a brush, dauber or spra ig sealant <8 hrs.*
	must be dry and free of dirt, great the joint contains old sealant, it a mechanical means. Apply prime Shake or stir primer well before Sikaflex Primer Dry ti 260	ase, mold release age and all extraneous ma rs at substrate temper using. Apply to dry, cle me before installin >1 hr.	nts, loose mortar, laitance, and any foreign math terial must be removed and the substrate cleane atures of 40°F and rising. Surface must be frost ean, oil free surface with a brush, dauber or spra ing sealant <8 hrs.*
	must be dry and free of dirt, great the joint contains old sealant, it a mechanical means. Apply prime Shake or stir primer well before Sikaflex Primer Dry ti 260 429	ase, mold release age and all extraneous ma ers at substrate temper using. Apply to dry, cle me before installin >1 hr. >1 hr. >30 min.	nts, loose mortar, laitance, and any foreign mattr terial must be removed and the substrate cleane atures of 40°F and rising. Surface must be frost ean, oil free surface with a brush, dauber or spra g sealant <8 hrs.* <8 hrs.* <8 hrs.*
	must be dry and free of dirt, great the joint contains old sealant, it a mechanical means. Apply prime Shake or stir primer well before Sikaflex Primer Dry ti 260 429 449 * If sealant cannot be installed w	ase, mold release age and all extraneous ma ers at substrate temper using. Apply to dry, cle me before installin >1 hr. >1 hr. >30 min.	nts, loose mortar, laitance, and any foreign mattr terial must be removed and the substrate cleane atures of 40°F and rising. Surface must be frost ean, oil free surface with a brush, dauber or spra ag sealant <8 hrs.* <8 hrs.* <8 hrs.* g, reprime.
Application	must be dry and free of dirt, great the joint contains old sealant, it a mechanical means. Apply prime Shake or stir primer well before Sikaflex Primer Dry ti 260 429 449 * If sealant cannot be installed w Primer should not b	ase, mold release age and all extraneous ma ers at substrate temper using. Apply to dry, cle me before installin >1 hr. >1 hr. >30 min. vithin 8 hours of primir pe used if it starts to ge	nts, loose mortar, laitance, and any foreign mattr terial must be removed and the substrate cleane atures of 40°F and rising. Surface must be frost ean, oil free surface with a brush, dauber or spra ag sealant <8 hrs.* <8 hrs.* <8 hrs.* g, reprime.
Application	must be dry and free of dirt, great the joint contains old sealant, it a mechanical means. Apply prime Shake or stir primer well before Sikaflex Primer Dry ti 260 429 449 * If sealant cannot be installed w Primer should not b Protect Sikaflex prime immediately.	ase, mold release age and all extraneous ma ers at substrate temper using. Apply to dry, cle me before installin >1 hr. >1 hr. >30 min. vithin 8 hours of primir pe used if it starts to ge	nts, loose mortar, laitance, and any foreign mattr terial must be removed and the substrate cleane atures of 40°F and rising. Surface must be frost ean, oil free surface with a brush, dauber or spra to sealant <8 hrs.* <8 hrs.* <8 hrs.* ing, reprime. el in container.

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Sikasil[®] Primer-2100

Sikasil silicone primer

Description Sikasil Primer 2100 is used to promote adhesion of Sikasil silicone sealants to a variety of construction materials such as stone, masonry, metal, coated glass and plastics. Packaging 8 fl. oz. (240 ml) container, 33 fl. oz. (1 L) container Typical Data (Material and curing conditions @ 77°F {25°C} and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Shelf Life 18 months in unopened packaging **Storage Conditions** When stored in the original, unopened containers at or below 90°F (32°C), Sikasil Primer-2100 has a shelf life of 18 months from the date of manu facture. Color Clear Odor solvent odor **Physical State** Liquid **Specific Gravity** 0.76 Viscosity 1 cps **VOC Content** 748 g/L **Recommended Dry Time** 15-30 min. Test results are averages obtained under laboratory conditions. Reasonable variations can be expected. How to Use For best bonding results, the following steps should be taken when using Sikasil Primer-2100. Application 1. Thoroughly clean all surfaces of dust, dirt, tar, oils and other debris. Remove rust and scale from metal surfaces by abrasive cleaning or wire brushing. Masonry surfaces must clean dry and sound and prepared by mechanical means. 2. For cleaning non-porous substrates, use two cloth wipe method using xylene or an approved commercial solvent. Strictly follow solvent manufacturer's instructions for use and warnings. Allow solvent to evaporate prior to sealant application. 3. Apply Sikasil Primer-2100 to clean, dry surfaces by brushing or spraying before installation of backer rod. A coverage rate of about 400 square feet per gallon is recommended on rough or porous substrates. On smooth metal surfaces, a coverage rate of 800 square feet per gallon is possible. 4. For non-porous substrates, allow the primer to dry a minimum of 15 minutes or until all the solvent evaporates. If a white film is noted, remove excess primer with a clean dry cloth then apply sealant. For porous substrates, allow primer to dry 30-60 min. For EIFS substrates, apply a heavy coat in two directions at a minimum rate of 400 square feet per gallon. A light white primer stain should be visible. Drying time depends on temperature, humidity conditions and the porosity of the substrate. 5. Apply sealant as directed within eight hours or cleaning and re-priming will be required Limitations Containers should be kept tightly sealed when not in use. Sikasil Primer-2100 hydrolyzes on contact with atmospheric moisture and prolonged exposure will reduce or destroy its effectiveness. When hydrolyzed, the primer will appear milky in color, do not use. Sikasil sealants must be applied within 8 hours of priming with Sikasil Primer-2100 or cleaning and repriming will be required.



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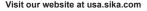
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B300

Product Data Sheet Edition 2.9.2015 Sika Boom

Sika[®] Boom[®] One-component, polyurethane foam

Description	Sika Boom is a pre-pressurized, portable, one-component, polyurethane foam system applied in a bead form. Sika Boom expands and cures slowly to a semi-rigid, closed cell foam upon reaction with moisture, such as ambient humidity. It is designed for easy dispensing through a straw adapter that is included with each can.
Advantages	Sika Boom provides the following beneficial properties:
	 Dries tack-free in approximately 8-10 minutes or less depending on moisture and temperature conditions.
	Fully cures within 24 hours.
	Cured foam can be sanded, painted or stained.
	Cured foam is resistant to heat and cold.
	Adheres to most building materials.
	Expands 2 to 3 times its original size.
Where to Use	On any clean surface to fill, insulate and seal around gaps, beneath base plates, muds sills, top plate penetrations, corner joints, T-joints, exterior cracks, around utility panels, pipes, duct penetrations, etc.
	For dispensing as a bead for filling cracks, crevices, and to fill smaller cavities.
Yields	1/4" Bead (6 mm) = 1,760 ft. (536 m) 3/8" Bead (9 mm) = 780 ft. (238 m) 1/2" Bead (12 mm) = 440 ft. (134 m)
Packaging	12 oz. can, 12/carton. 20 oz. can, 12/carton

Typical Data (Material and curing conditions @ 70°F and 40% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life	18 months.		
Storage Conditions	Store in a cool, dry area. Do not expose to open flame or temperatures above 120°F (49°C). Store at room temperature before use.		
Application Tempera	ature 40°F (18	8°C) and 120°F (38°C)	
Service Range	-200°F to 200°F (-29°	°C to 93°C)	
Core Density	1.2 lbs/ft3 (19.2 kg/m3)	
R-factor	4-5 per inch (.03 w/m	.k) typically	
Closed cell content	(ASTM D-2856)	>70% (typically)	
Tack-Free Time	Approx. 10 minutes		
Cure Time	12-24 hours		
Cuttable (1" Bead at	room conditions)	1 hour	
ASTM E-84 (12.5%)		25	
	Smoke Developed	50	



Substrate Prep	
	Substrate must be clean, firm, free of loose particles and free of dust, grease, mold release agents. Protect surfaces not to be foamed. Shake can before using. For best results in cavities larger than 3 inches in diameter, dampen substrate to supplement atmospheric pressure humidity in affecting consistent cure throughout applied foam.
Application	After following instruction for set-up, can is ready to use. The foam sealant flow can be me- tered by means of tilting the one piece straw adapter with the valve pointing downwards. By activating the adapter lever carefully, the extrusion rate can be regulated. Foam application can be interrupted when needed, as outlined in the instructions. Sika Boom is especially usefu for irregular voids and on nonlinear cracks and crevices, as foam will expand up to 200% dur- ing curing process. Filling excessively large cavities can result in a prolonged curing process. Also, insufficient air or substrate moisture during cure may cause delayed expansion.
Limitations	 Not resistant to UV rays unless painted, covered or coated. Will not adhere to polyethylene, Teflon, silicone, oils and greases, mold release agents and similar materials. Do not expose to open flame or temperatures above 120°F (49°C). Excessive hea can cause shorter shelf life. Not intended as a firestop. Do not use where temperatures rise above 240°F (116°C).

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Product Data Sheet Edition 4.6.2016 Identification no. Sika[®] Duoflex[®] NS



Sika[®] Duoflex[®] NS

Two-Component, Non Sag, Polysulfide Sealant

Description		flex [®] NS is a or vertical an			ag, premiur	n-quality pol	ysulfide seal	ant, specifi
Where to Use	 Sika® Duoflex is suitable for either exterior or interior use to seal both static and dynamic joints: Joints in precast concrete. Joints in glass and metal curtain wall construction. Expansion and control joints in concrete and masonry walls. Joints in metal siding. Perimeters of aluminum window frames and metal panels. Joints located in gas stations /refueling environments. 							
Advantages	 Tough, elastic, rubber-like seal. Remains flexible with expansion and contraction of building component without adhesive or cohesive failure, based on good joint design. Stays resilient within a wide temperature range. Excellent resistance to water, oils, grease, most solvents, mild acids and alkalis. Tenacious adhesion to concrete, metal, wood, glass, stone, ceramic and masonry surfaces in a combination, typically without the need for priming with Sika Duoflex 5050 Primer. Effective under constant immersion or saturated conditions, when suitably primed. Certified under NSF/ANSI Method 61 and USDA acceptance (NS grade only). 							
Coverage	Coverage b	based on line	ar feet of sea	alant per gall	on:			-
	Width			1	epth]
	in (mm)	0.25 (6)	0.5 (13)	0.75 (19)	1 (25)	1.25 (32)	1.5 (38)	-
	0.25 (6)	307.7						1
	0.5 (13)	153.8	76.7			_		4
	0.75 (19)	102.8	51.0	34.8				4
	1 (25)	76.7	38.6	26.1	19.6	10.5		-
	1.25 (32)	61.9	31.0	21.2	14.7	12.5		4
	1.5 (38)	51.0	26.1	17.4	12.5	9.8	8.7	J
Packaging	1.5 gallon	(5.7 liter) uni	t					
Chemical Resistance	(see Sika D	uoflex chemi	ical resistanc	e chart)				
	RESULTS MA APPLICATIO Self Life Storage C	ata <i>(Material)</i> w DIFFER BASED U N METHODS, TEST Conditions Conditioning	PON STATISTICAL V	ARIATIONS DEPEN L SITE CONDITION 1 year Store c Condit conditi	IDING UPON MIX S AND CURING C in original, ur Iry between 4 ion material t oning units to	nog METHODS AND NODITIONS. 10 pened packa 10 and 95°F (4 20 40 to 100°F (20 approximate)	and 35°C). pefore applicat y 70°F (21°C) i	on. Pre- s necessary
	Pot Life Tack Free Full Cure Testing St	es at 73°F(23°		Bronze Very go 1 hr 6 hrs 7 days ASTM 40 to 1 Sealan anticip	c920, Class 2 00°F (4 to 38	5 \$°C), ambient a istalled when j ent.	e application random random random random random random random random random random random random random random Random random br>Random random br>Random random br>Random random br>Random random br>Random random br>Random random br>Random random tures.	

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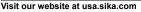
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Product Data Sheet Edition 9.6.2015 Identification no. Sika[®] Duoflex[®] SL

Sika[®] Duoflex[®] SL

Two-Component, Self Leveling, Polysulfide Sealant

Description		ex" is a two-co cation to hor		-	premium-qi	uality polysu	lfide sealant id	eally suite	
Where to Use	Sika [®] Duofle	Sika [®] Duoflex SL is suitable for either exterior or interior use in both static and dynamic joints:					joints:		
	Joints iExpansJoints i	 Expansion and control joints in concrete floors. Joints in podium deck structures. Expansion joints in tile and brick flooring. Joints in gas stations / refueling environments 							
Advantages	 Remain cohesiv Stays ru Excelle Tenacio combin Effective 	e failure, bas esilient withi nt resistance ous adhesion nation, typica re under cons	th expansion sed on good n a wide ter to water, of to concrete ally without stant immer	joint design nperature ra ls, grease, m e, metal, woo the need for sion or satur	nge. nost solvents od, glass, sto priming. rated conditi	, mild acids a ne, ceramic	nent without a and alkalis. and masonry s uitably primed	urfaces in	
Coverage		ased on linea	ar feet of sea					1	
	Width		1 / - >		Depth				
	in (mm)	0.25 (6)	0.5 (13)	0.75 (19)	1 (25)	1.25 (32)	1.5 (38)		
	0.25 (6)	307.7							
	0.5 (13)	153.8	76.7						
	0.75 (19)	102.8	51.0	34.8					
	1 (25)	76.7	38.6	26.1	19.6				
	1.25 (32)	61.9	31.0	21.2	14.7	12.5	0.7		
		51.0	26.1	17.4	12.5	9.8	8.7		
Packaging	1.5 gallon (5.7 liter) unit								
Chemical Resistance	(see Sika Duoflex chemical resistance chart) Typical Data (Material and curing conditions @ 73°F and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE,								
	APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CON					CONDITIONS.			
		Self Life			1 year in original, unopened packaging. Store dry between 40 and 95°F (4 and 35°C).				
	_	Conditions Conditioning			-			tion Pre-	
Product Conditioning Color UV Color Stability		cond wher Bron	Condition material to 40 to 100°F before application. Pre- conditioning units to approximately 70°F (21°C) is necessa when working at the far ends of the application range. Bronze Very good						
	Pot Life Tack Fre Full Cure Testing Applicat	standards ion Temperati	·	1 hr 6 hrs 7 day ASTN 39 to Seala antic	/s A C920, Class 2 100°F (4 to 3 int should be ipated moven	38°C), ambient installed wher nent.	and substrate t joint is at mid-i		
	Elongati	ent Capabilitie on at Break As Hardness AST	5TM D412 M D2240	± 259 500% 25 - 3	6 - 550%	:o 77°C)			

How to Use	
Surface Preparation	All joint surfaces must be clean, sound, dry and frost-free. Joint walls must be free of oils, grease, paints coatings, sealers, curing compound residues, and any other foreign matter that might prevent adhesior This should be accomplished by mechanical means (e.g. sandblasting, abrasive grinding, etd.). Bon breaker tape or backer rod must be used in bottom of joint to prevent bond.
	Joint Design Proper joint design for moving joints is 2:1 width to depth ratio, with a recommended 1/4" (6 mm minimum and 1/2" (13 mm) maximum depth of sealant. For non-moving joints, the width to dept ratio can vary.
	Priming For maximum adhesion, including in submerged or immersed applications, the use of Sika® Duofle 5050 Primer is necessary. Consult your Sika Technical Service Representative if unsure if primer is nec essary. A uniform glossy sheen after priming indicates adequate primer. Some surfaces, such as porou concrete, may require two coats. Primer must be tack-free before applying sealant, typically 2 hrs o concrete and 4 hrs on steel at 77°F (25°C). Sealant must be applied same day as primer. Primed area left overnight should be re-primed.
Mixing	Pour entire contents of Component B into pail of Component A and mix using a low speed drill (100 300 rpm) and Sika mixing paddle. Mix for 3-5 minutes to achieve uniform color and consistency. Scrap down sides of pail periodically. Avoid entrapment of air during mixing.
	Mixed material must be used within the pot life parameters given. Do not attempt to thin or use material that has started to harden. The individual components are formulated, manufactured and shippe to be used together.
	When mixed in cold weather (<50 degF), do not force the mixing paddle to the bottom of the pail. After adding Component B in Component A, mix the top 1/2 to 3/4 of teh pail in the first minute of mixin After scraping down the sides of the pail, mix again for another minute. The paddle should reach the bottom of the pail between the first and second minute of mixing. Scrap down the sides of the pail second time and then mix for an additional 2-3 minutes until sealant is well blended.
Application	Recommended application temperatures 40 to 100°F (4 to 38°C). Pre-conditioning units to approximate 70°F (21°C) is necessary when working at the far ends of the application range. Move pre-conditione units to work areas just prior to application. Apply sealant only to clean, sound, dry, and frost-free substrates. Sika® Duoflex SL should be applied into joints when joint slot is at mid-point of its designed expansion and contraction. To place, load directly into bulk gun or use a follower plate loading system Place nozzle of gun into end of joint and fill entire joint. Keeping the nozzle deep in the sealant, continue with a steady flow of sealant preceding nozzle to avoid air entrapment. Also, avoid overlappir of sealant since this also entraps air. On floor joints, properly recess the sealant to avoid material over the surface plane. Dry tool as required.
Limitations	 Do not use the B component from NS with the A component for SL and vice versa. The ultimate performance of Sika Duoflex SL depends on good joint design and proper application Primary and secondary immersion applications; Sika® Duoflex® Primer must be used Do not apply when moisture vapor transmission exists since this can cause bubbling within the sealant When overcoating: an on-site test is recommended to determine actual compatibility.
	 Not suitable for: Joint movement more than 25%. Glazing applications. Improperly prepared or contaminated surfaces. Joints involving adhesion to painted surfaces.



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Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart-ment at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.

Sika Mexicana S.A. de C.V.

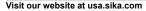
Fracc. Industrial Balvanera

Corregidora, Queretaro

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Carretera Libre Celaya Km. 8.5



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B330

Product Data Sheet Edition 7.23.2014 Identification no. Sika[®] Duoflex[®] Primer 50/50

Sika[®] Duoflex[®] 5050 Primer

Sika Duoflex 5050 Primer is a two component, low viscosity, adhesion-promoting, epoxy primer for use with Sika

Description	Sika [®] Duoflex [®] Primer 5050 is a two-component, low-viscosity, adhesion-promoting epoxy primer for Sika [®] Duoflex [®] polysulphide sealants.	
Where to Use	To promote adhesion to porous and dense substrates, including concrete and metal, prior to installing Sika [®] Duoflex [®] NS/SL.	
Advantages	 Two-component 1:1 volume ratio Low viscosity: easy to apply by brush. Fast drying time; allowing earlier sealing. Minimizes downtime; quicker use of joint. Maximizes adhesion; enhances durability Low VOC contents 	
Coverage	Yield Concrete: 700 – 800 lin. ft./unit (210 – 240 lin. m/unit) at 3-5 mils/coat	
Packaging	1/4 gal. (0.95 L) unit	

Typical Data (Material and curing conditions @ 73°F and 50% R.H.)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Self Life	1 year in original, unopened packaging.
Storage Conditions	Store dry between 65 and 80°F (18 and 27°C).
Color	Part A: (Resin) Clear Part B: (Hardener) Amber
Yield: Concrete Steel	700 – 800 lin. ft./unit (210 – 240 lin. m/unit) at 3-5 mils/coat 1100 – 1300 lin. ft./unit (335 – 395 lin. m/unit) as 2-3 mils coat
Application Temperature: Ambient Substrate	40 to 95°F (5 to 35°C) 41°F (5°C) above dew point
Mix Ratio	1:1 by volume
Volume Solids	65%
Pot Life	3 hours
Waiting Time before Sealing: Concrete Steel	Min. 2 hours /Max. 36 hours Min. 4 hours /Max. 36 hours
VOC Content	50 g/L
Note:	Material cures more slowly at cooler temperatures, and wor- king time will be substantially reduced at higher temperatures. In hot weather, material should be cooled to between 65 and 80°F (18 and 27°C) prior to mixing and application to improve workability and avoid shortened pot life.



	How to Use	
	Surface Preparatio	 Concrete: Apply only to clean, dry and sound substrates that are free of all coatings, sealers, curing compounds, oils, greases or any other contaminants which would impede penetration or adhesion. All surface irregularities, including cracks or substrate details, such as expansion joints and control joints, should be properly addressed prior to application. New concrete should be cured a minimum of 28 days with laitance and any weak surface layers removed. Concrete that has been contaminated with chemicals or other foreign matter must be neutralized or removed. Concrete should have a minimum surface tensile strength of at least 300 psi (2 MPa) as per ASTM D4541 and a surface profile of CSP 3-5 (a profile equal to 60-grit sandpaper, or coarser) in accordance with the International Concrete Repair Institute (ICRI) standard guideline #03732 for coating concrete. Prepare surface by mechanical means to achieve this desired profile. Concrete surfaces potentially subject to out-gassing should be primed when the temperature of the substrate is dropping. Alternatively, double priming will greatly reduce the effects of out-gassing by additionally filling the pores in the concrete. Steel: For service in an immersed environment, abrasive blast with an anchor profile of 2 - 4 mils in ac-
		cordance with Steel Structures Painting Council Specification SP-5-63 or NACE No. 1, to achieve a "White Metal" finish. For splash and spillage exposure, "Near White" SP-10-63 or NACE No. 2 is required.
	Mixing	Individually stir the contents of each component of Sika [®] Duoflex Primer 5050 until a uniform con- sistency and colour has been produced in each. Pour contents of Component B into the container in which Component A is held and thoroughly mix using a low speed drill and jiffy paddle for a minimum of 2 minutes until the blended liquid is of a consistent color (no streaking) and uniform consistency. Mix no longer than 3 minutes. Note: When initially pouring Component B into Component A, ensure all hardener is emptied from the container into the resin. While mixing, use a suitable tool to scrape the side and bottom of the container in which the blended components are held to ensure the entire product has been properly mixed. Any unmixed material will not cure and will potentially cause the subsequent installation of Sika [®] Duoflex NS/SL sealants to fail
	Application	Apply Sika® Duoflex® Primer 5050 by brush at approximately 700 - 800 lin. ft./unit (210 - 240 lin. m/ unit) as 3-5 mils coat onto concrete and 1100 - 1300 lin. ft./unit (335 - 395 lin. m/unit) as 2-3 mils coat onto steel. Sika® Duoflex® Primer 5050 must be dry to the touch, following a drying time of typically 2 hours at 73°F (25°C) on concrete and 4 hours at 73°F (25°C) on steel. Do not allow the waiting time to exceed 36 hours before proceeding with the installation of Sika® Duoflex® NS/SL sealants. Where the maximum waiting time is exceeded, do not seal but contact Sika Corp, Technical Services for guidance Note: Observe the above waiting times after priming and before installation of the sealant. Installation of the sealant too soon or too late will jeopardize the adhesion and performance of Sika® Duoflex® NS/ SL.
	Limitations	 Do not thin with solvents Confirm with Sika Corp. that the product is suitable for specific chemical environments, prior to use. Prepare substrate according to "Surface Preparation" portion of this document. Minimum application temperature of 40°F (5°C) above dew point must be observed; do not apply onto damp surfaces. Moisture content of substrates must be < 4% (Tramex meter reading) and vapor transmission should be 3 pounds or less per 1000 square feet over 24 hours as confirmed through appropriate ASTM testing and quantitative relative humidity (RH) testing should confirm concrete RH results of < 75%. For industrial and commercial use only; to be handled by experienced or trained personnel only. For use only with Sika® Duoflex® sealants, as supplied by Sika Corp.
		PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE- PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.
	F	EEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY. or further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the ctual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet efore using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.
	P D n fe	virior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product bata Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart- nent at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction or each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to roduct use.
ſ		IKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on he current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIS. XPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA HALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR HE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. ALL OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.
Ħ		Sika Corporation Sika Canada Inc. Sika Canada Inc. 201 Polito Avenue Lyndhurst, NJ 07071 Phone: 800-933-7452 Fax: 201-933-6225 Sika Canada Inc. Sika Canada Inc. Sika Canada Inc. Sika Canada Inc. Sika Mexicana S.A. de C.V. Carretera Libre Celaya Km. 8.5 Fracc. Industrial Balvanera Corregidora, Queretaro C.P. 76920 Phone: 514-697-2610 Phone: 514-694-2792

Product Data Sheet Edition 10.30.2014 SikaSwell S-2

SikaSwell[®] S-2

One part polyurethane, extrudable swelling waterstop (bentonite-free)

Description	swellable, one-com for use in all kinds o	pecially formulated, high-perform ponent, polyurethane-based wate of construction joints. Swelling rul ion seal within joint, blocking the	erstop bber
Where to Use	 crete structures. Excellent for sealing floor slabs. Excellent for sealing May be applied to the sealing of the se	struction joints in new watertight ing pipe penetrations through wa ing joints between precast eleme o horizontal, vertical and overhea	alls and ants.
	faces.Ideal for watertigh existing concrete.	nt construction joints between ne	w and
Advantages	water and wastew Permanently wate Capable of sealin Elastic-withstands Easy, simple appl Adaptable in the f No nails, glue, or Controlled expans Offers resistance Thixotropic prope Very economical. Saves labor by el and tieing to reba No mixing require Allows more thoro tion which aids in	er resistant, with no leaching and g construction joints with head p s wet/dry cycling. ication. ield to suit job requirements. hooks required. sion eliminates cracking in fresh to various chemicals. rties allow SikaSwell S-2 to seal iminating inverted keyways, split r associated with conventional P ed. ough vibration of concrete at joint achieving a watertight joint.	does not dissolve in water. ressures of up to 50 psi (115 ft. head). concrete. irregular joint surfaces. forming, heat splicing, special fittings VC waterstops. t, resulting in better concrete consolida- F (23°C) and 50% R.H.) B UPON MIXING METHODS AND EQUIPMENT,
	Storage Conditions	9 months For best results, store dry at 7	0°F (20°C) before using
	Color	Red	
	Temperature of Produ	uct for Best Application	50° to 90°F
	Tack Free Time		2-3 hours
	Shore A Hardness	Swollen (7 days in tap water)	>10
		Non Swollen (7 days)	40-60
	Swelling Capacity	1 day	<20%
		7 days	>100%
	0	-	yed swelling properties in salty water.
	Concrete Thickness	s Number of Beads (in.)	Side length of triangular bead (in.)
	8-12		5/8
	12-20	1	3/4
	> 20	2	3/4
R			er than 1 inch, use 3/4 inch triangular section(s, YS READ AND FOLLOW THE WARNINGS AND

Note: If the maximum size aggregate in the concrete is greater than 1 finch, use 3/4 inch thangular section(s). PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE-PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

Coverage	20 fl.oz. uni-pac sausage seals: Triangular Yield 5/8 x 5/8 x 5/8 in. 18 lineal ft. 3/4 x 3/4 x 3/4 in. 12 lineal ft. Note: Yield may vary based on substrate irregularities.	
Packaging	Disposable 20 fl. oz., moisture-proof uni-pac sau- sages, 20/carton.	
How to Use Surface Preparation	Clean all surfaces. Substrate must be clean, sound, free of loose particles, dust, laitance, oils, and other contaminants. Surface may be dry or damp, with no presence of standing water. Do not leave the prod- uct in contact with wet concrete, or on a surface with a very high moisture content, for a long period of time, before casting new concrete. These conditions will decrease the adhesion between the SikaSwell S-2 bead and the surface of the joint.	
Application	Recommended application temperatures: 50°-90°F. Extrude material using Sika MK-5 bulk caulking gun or other approved bulk gun. Cut the nozzle to obtain a triangular extrusion section with a size fulfilling effective needs (or use nozzle included in carton of SikaSwell S-2). Apply a uniform, continuous bead to the hardened concrete. Wait for approximately 2 hours after placement of the SikaSwell S-2 before placing concrete. The minimum thickness of concrete around the SikaSwell S-2 should be 4 inches on each side (reinforced concrete) or 6 in. on each side (non-reinforced concrete) and 4 inches on top. For	SikaSwell S-2 Installation 1. Clean surface of concrete. 2. Cut nozzle to obtain triangu- lar extrusion section (or use nozzle included in carton of SikaSwell S-2).
	optimum application, store at 70°F for a minimum of 8 hours prior to use; if the material appears stiff, knead the sausage for a short time before placing in bulk gun.	 Apply a uniform, continuous bead to hardened concrete. Wait 2 hours before placing new concrete.
Limitations	 Not suitable for expansion joints. Protect from rain to avoid expansion before placing swelling capacity. Avoid placement of the concrete from a height great preside called a first or a data before a state of the concrete from a height great preside a state of the concrete from a state of the concrete from a height great preside a state of the concrete from a height great preside a state of the concrete from a height great preside a state of the concrete from a height great preside a state of the concrete	new concrete and to assure 100% ter than 20 inches. If this is not

possible, allow SikaSwell S-2 to cure for 2 days before placing concrete.

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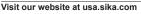
Sika Mexicana S.A. de C.V.

Corregidora, Queretaro

Phone: 52 442 2385800 Fax: 52 442 2250537

C.P. 76920

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C - Epoxy Resin and Structural Engineering Systems

Bonding	Agents
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Sika Armatec 110 EpoCem	A10
Sikadur 32 Hi-Mod	A20
Sikadur 32 Hi-Mod LPL	A30

Crack Repair and Injection Resins Injection			
Sikadur 33	C10		
Sikadur 35 Hi-Mod LV	C20		

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Structural Strengthening Systems Preformed

C130
C140
C150
C160
C170
C180
C190
C200
C210
C220
C230
C240
C250
C260
C270
C280
C290
C300
C310
C320
C330
C340
C350
C360

Multi-Purpose Structural Adhesives

Sikadur 31 Hi-Mod Gel (1:1 Mix Ratio)	B240
Sikadur 31 Hi-Mod Gel LPL	C370
Sikadur 31, SBA (20-45°F)	usa.sika.com

Sikadur 31, SBA Normal Set	C380
Sikadur 31, SBA Slow Set	C390
Sikadur 32 Hi-Mod	A20
Sikadur 32 Hi-Mod LPL	A30
Sikadur 33	C10
Sikadur 35 Hi-Mod LV	C20
Sikadur 35 Hi-Mod LV LPL	C30
Sikadur Injection Gel, Standard Set	C70

Epoxy Resin Mortars and Broadcast Systems Heavy Traffic

Heavy Traffic	,
Sikadur 21 Lo-Mod LV	C400
Sikadur 22 Lo-Mod	C410
Sikadur Epoxy Broadcast Overlay System	C420
Sikadur 22 Lo-Mod FS	C430
Sikadur 25 Lo-Mod	C440
Sikadur 23 Lo-Mod Gel	B270
Sikadur 35 Hi-Mod LV	C20
Sikadur 35 Hi-Mod LV LPL	C30
Sikadur 43 Patch-Pak	usa.sika.com
Light Traffic	
Sikagard 62	A450
Sikadur Balcony System	C450
Sikagard Duochem 7500	C460
Sikagard Duochem 7500 Thixo	C470
Sikagard WDE Primer	C480
Sikagard 616	C490
Sikagard 664	C500
Sikagard 600	C510
Control Joint Systems	
Sika Loadflex 524 EZ	B180
Sikadur 51 NS	B190
Sikadur 51 SL	B200
High Performance Joint Systems	5
Sikadur 31 Hi-Mod Gel (1:1 Mix Ratio)	B240
Sikadur Combiflex SG System	B260
Flooring Sikagard 62	A450
Sikagard Duochem 7500	C460
Sikagard Duochem 7500 Thixo	C470
Sikagard WDE Primer	C480
Sikagard 616	C490
Sikagard 664	C500
Sikagard 600	C510
Anchoring	
Sika AnchorFix-1	C520
Sika AnchorFix-2	C520
Sika AnchorFix-2 Arctic	C540
Sika AnchorFix-500	C550
Sika AnchorFix-3001	C560
	000



BUILDING TRUST

Sikadur[®] 33

High-modulus, high-strength, structural, very rapid-curing epoxy, smooth-paste adhesive

al, s Cla	Sikadur 33 is a 2-component, 100% solids, moisture-tolerant, high-modulus, high-strength, structur- al, smooth-paste epoxy adhesive. It conforms to the current ASTM C-881, Types I and II, Grade-3, Class B/C* and AASHTO M-235 specifications. *except for gel time				
	Use to seal cracks and to secure injection ports in structural concrete and wood trusses prior to pressure-injection grouting.				
- 1	 New smooth-paste consistency for vertical, horizontal and overhead crack sealing. Very rapid curing, even in thin film, for faster pressure-injection grouting. Injection may proceed as soon as 1 hour after application. 				
	Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.)RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT,TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.Shelf Life2 years in original, unopened containers.Storage ConditionsStore dry at 40°-95°F (4°-35°C). Condition material to				
		· ·	24°C) before usin	g.	
	Color	Concrete gray			
	Mixing Ratio Component 'A': Component 'B' = 1:1 by volume.				
	Consistency	Smooth-paste			
	Pot Life Tack-Free Time		15 minutes. (60 g	- , ,	
	Tack-Free Time	40°F (4°C) * 1.5-1.75 hr	73°F (23°C) * 25-30 min	20-25 min	
	Tensile Properties (A				
	1 day Tensile	Strength 3	3,300 psi (22.7 MF	Pa)	
).2% 8 3 X 105 pei (5 70	0 MPa)	
	Modulus of Elasticity 8.3 X 10⁵ psi (5,700 MPa) Flexural Properties (ASTM D-790)				
	1 day Flexura	I Strength (Modu	ulus of Rupture) sticity in Bending		
	Shear Properties (AS				
	Heat Deflection Temperature (ASTM D-648) 1 day 120°F (49°C) [fiber stress loading = 264 psi (1.8 MPa)]				
	Bond Strength (ASTM C-882): Hardened Concrete to Hardened Concrete				rete
		re) 3,000 psi (20			
	Water Absorption (As Compressive Proper Compressive Strengt	ties (ASTM D-6		Ir immersion)	0.36 %
	40°F (4		'3°F (23°C)*	90°F (32°C)*	
	1 hour 30 (0.2) 2 hour 1,800 (5,600 (38.6) 5,700 (46.2)	4,600 (31.7) 5,600 (38.6)	
	4 hour 3,500 (7,800 (53.7)	5,700 (39.3)	
	8 hour 6,300 (3,200 (56.5)	6,600 (45.5)	
	16 hour 6,900 (8,500 (58.6)	7,100 (48.9)	
	1 day 7,400 (3 day 7,900 (/	3,600 (59.3) 9,000 (62)	7,300 (50.3) 7,600 (52.4)	
	7 day 8,300 (57.2) 9,200 (63.4) 7,800 (53.7)				
	14 day 8,500 (/	9,200 (63.4)	8,100 (55.8)	
	28 day 8,600 (9,400 (64.8)	8,300 (57.2)	
	Compressive Modulus 28 day 9.6 X 10 ⁵ psi (6,600 MPa)				
	* Material cured and tested at the temperatures indicated.				





Coverage	1 gal. yields 231 cu. in. of paste adhesive.	
Packaging	3 gallon unit	
Cure Mechanism	Epoxy resin adhesive	
How to Use		
Surface Preparation	Surface must be clean and sound. It may be dry or damp, but free of standing water. Remove dust, laitance, grease, curing compounds, impregnations, waxes and any other contaminants. Preparation Work: Concrete - Should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by blast cleaning or equivalent mechanical means. Steel - Should be cleaned and prepared thoroughly by blast cleaning.	
Mixing	Pre-mix each component. Proportion equal parts by volume of Component 'B' and Component 'A' into a clean pail. Mix thoroughly for 3 minutes with Sika paddle on low-speed (400-600 rpm) drill until uniform in color. Mix only that quantity that can used within its pot life.	
Application	To seal injection ports and cracks for injection grouting - Place the neat mixed material over the crac to be pressure-injected and around each injection port. Allow sufficient time to set before press injecting. Use Sikadur 35, Hi-Mod LV, or Sikadur 52 for the low viscosity injection adhesive. Cons technical data sheets on these products for more information. Also, contact Technical Service (1.800.9 SIKA) for additional information on pressure injection grouting.	
Removal	Uncured material can be removed with approved solvent (Xylene, M.E.K., Acetone, etc.). Strictly f low solvent manufacturer's warnings and instructions for use. Cured material can only be remov mechanically.	
Limitations	 Minimum substrate and ambient temperature 40°F (4°C). Do not thin. Addition of solvents will prevent proper cure. Material is a vapor barrier after cure. Not for sealing cracks under hydrostatic pressure at the time of application. Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure. 	

KEEP CONTAINER TIGHTLY CLOSED, KEEP OUT OF REACH OF CHILDREN, NOT FOR INTERNAL CONSUMPTION, FOR INDUSTRIAL USE ONLY, FOR PROFESSIONAL USE ONLY.

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

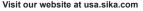
Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart-ment at 800.933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.

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Product Data Sheet Edition 11.13.2014 Sikadur[®] 35, Hi-Mod LV

Sikadur[®] 35, Hi-Mod LV

Description	Sikadur [®] 35, Hi-Mod LV is a 2-component, 100% solids, moisture-tolerant, low-viscosity, high-strength, multi- purpose, epoxy resin adhesive. It conforms to the current ASTM C-881, Types I, II, and IV, Grade-1, Class C* and AASHTO M-235 specifications. *except for gel time				
Where to Use	 Pressure-injection of cracks in structural concrete, masonry, wood, etc. Gravity-feed of cracks in horizontal concrete and masonry. Epoxy resin binder for epoxy mortar patching and overlay of interior, horizontal surfaces. Seal interior slabs and exterior above-grade slabs from water, chlorides, and mild chemical attack; also improves wearability. 				
Advantages	 Super low viscosity. Convenient easy mix ratio A:B = 2:1 by volume. Unique, high-strength, structural adhesive for "can't dry" surfaces. Deep penetrating and tenacious bonding of cracks in structural concrete. High-early-strength developing adhesive. 				
Coverage	1 gal. yields 231 in ³ of adhesive and grout. 1 gal. of adhesive, when mixed with 5 gal. by loose volum oven-dried aggregate, yields approximately 808.5 in ³ of epoxy mortar.				
Packaging	3 gal. units; 1 gal. units; 12 floz. units, 12/case.				
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIX DESIGNS, MIXING METHODS AND EQ MENT, TEMPERATURE, APPLICATIONS METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Shelf Life 2 years in original, unopened containers. Product Storage Store dry at 40°-95°F (4°-35°C). Product Conditioning Condition material to 65°-75°F (18°-24°C) before using. Color Clear, amber. Mixing Ratio Component A : Component B=2:1 by volume. Viscosity (Mixed) Approximately 375 cps. Pot Life Approximately 25 minutes. (60 gram mass) Tack Free Time 40°F (4°C) 73°F (23°C) 90°F (32°C) (3-5 mils) Neat 14-16 hrs. 3-3.5 hrs. 1.5-2 hrs. Tensile Properties (ASTM D-638) Neat Mortar 7 day Tensile Strength 8,900 psi (61.4 MPa) 840 psi (5.8 MPa) Elongation at Break 5.4% 0.3% 0.3% 14 day Modulus of Elasticity 4.1 X 10° psi (2,800 MPa 7.6 X 10° psi (5,200 MPa				
	14 day Flexural Strength (Modulus of Rupture) Tangent Modulus of Elasticity in Bending 14,000 psi (96.6 MPa) 2,200 psi (15.2 MPa) Shear Strength (ASTM D-732) 3.7 x 10 ⁵ psi (2,600 MPa) 9.5 X 10 ⁵ psi (6,500 MPa) 14 day Shear Strength 5,100 psi (35.2 MPa) 2,300 psi (15.9 MPa)				
	Heat Deflection Temperature (ASTM D-648) 124°F (51°C) 129°F (54°C)				
	Bond Strength (ASTM C-882): Hardened concrete to hardened concrete2 day(moist cure)Bond Strength4,000 psi (27.6 MPa)14 day(moist cure)Bond Strength2,900 psi (20.0 MPa)2 day(dry cure)Bond Strength2,800 psi (19.3 MPa)Water Absorption (ASTM D-570) 7 day(24 hour immersion)0.27 %Compressive Properties (ASTM D-695)				
	Compressive Strength, psi (MPa) Neat Mortar (1:5) 40°F (4°C) 73°F (23°C) 90°F (32°C) 40°F(4°C) 73°F (23°C) 90°F (32°C) 4 hour - - - - 800 (5.5) 8 hour - 180 (1.2) 3,200 (22.1) - - 4,100 (28.3) 16 hour - 4,500 (31.1) 6,300 (43.5) - 400 (2.8) 5,700 (39.3)				
	1 day - 6,000 (41.4) 9,100 (62.8) 120 (0.8) 5,000 (34.5) 6,900 (47.6) 3 day 4,000 (27.6) 10,700 (73.8) 10,500 (72.5) 6,200 (42.8) 6,800 (46.9) 7,000 (48.3)				



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	How to Use Surface Preparation
	Mixing
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	7 day 6,800 (46.9) 11,00 14 day 10,300 (71.1) 12,00 28 day 12,400 (85.6) 13,00 Compressive Modulus	00 (82.8) 10,500 (72.5)	6,300 (43.5) 7,900 (54.5) 6,800 (46.9) 8,500 (58.7) 7,000 (48.3) 8,600 (59.3) Mortar	8,800 (60.7) 8,800 (60.7) 8,800 (60.7)	
	· 7 day	3.2 X 10⁵ psi (2,200 MF	Pa) 28 day 8.1 X 10⁵ p	si (5,600 MPa)	
v to Use ace Preparation	Surface must be clean and sound. It grease, curing compounds, impregna	,	8		
	Concrete - Blast clean, shot blast or texture.			an open roughened	
	Steel - Should be cleaned and prepa	red thoroughly by blast c	cleaning.		
ıg	Proportion 1 part Component 'B' to 2 parts Component 'A' by volume into a clean pail. Mix thoroughly for 3 minutes with Sika Paddle on low-speed (400-600 rpm) drill until uniformly blended. Mix only that quantity that can be used within its pot life. To prepare an epoxy mortar, slowly add 4-5 parts by loose volume of an oven- dried aggregate to 1 part of the mixed Sikadur [®] 35, Hi-Mod LV and mix until uniform in consistency.				
ication	To gravity feed cracks - Blow vee-n Hi-Mod LV into vee-notched crack. C filling if cracks reflect through.				
	To pressure-inject cracks - Use autor ports based on system used. Seal prepoxy adhesive seal has cured, inject for additional information.	orts and crack with Sikad	dur [®] 31, Hi-Mod Gel or Sika	dur [®] 33. When the	
	To seal slabs - Spread neat Sikadur [®] 35, Hi-Mod LV over slab. Allow penetration. Remove excess to prevent surface film. Seal interior slabs and above-grade exterior slabs only.				
	For an epoxy mortar - Prime prepare tar before primer becomes tack-free. screed or trowels. Finish with finishin	Place the epoxy mortar	using trowels. Compact and	level with vibrating	
ations	 Do not thin with solvents. Consult Use oven-dried aggregate only. Maximum epoxy mortar thickness Epoxy mortar is for interior use on 	is 1.5 in. (38 mm) per lift			
	 Do not seal exterior slabs on grad Minimum age of concrete must be and to seal slabs. 		on curing and drying conditi	ons, for mortar	
	 Porous substrates must be tested Not for injection of cracks under hy Do not inject cracks greater than 1 	ydrostatic pressure at the	e time of application.		
	 Not an aesthetic product. Color ma 	. ,		ure.	

KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY.

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart-ment at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use

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Sikadur® 35, Hi-Mod LV LPL High-modulus, low-viscosity, high-strength,

extended pot life, epoxy adhesive

	multi-purpose epoxy r Class-C** and AASHTO	Sikadur® 35, Hi-Mod LV LPL is a 2-component, 100% solids, moisture-tolerant, low-viscosity, high-strength, multi-purpose epoxy resin adhesive. It conforms to the current ASTM C-881, Types I, II, and IV, Grade-1, Class-C** and AASHTO M-235 specifications. **except for bond strength		
Where to Use	 Gravity-feed of cracl Epoxy resin binder f Seal interior slabs a improves wearability 	 Low pressure and high pressure injection of cracks in structural concrete, masonry, wood, etc. Gravity-feed of cracks in horizontal concrete and masonry. Epoxy resin binder for epoxy mortar patching and grouting. Seal interior slabs and exterior above-grade slabs from water, chlorides and mild chemical attack; also improves wearability. Epoxy resin binder for epoxy mortar repair for structural pile members. 		
Advantages	 Slow reaction rate a Convenient, easy m Unique, high-strengt Deep, penetrating a 	 Extended pot life. Low viscosity and excellent penetrating ability. Slow reaction rate and low exotherm. Convenient, easy mix ratio; A:B = 2:1 by volume. Unique, high-strength, structural adhesive for "can't dry" surfaces. Deep, penetrating and tenacious bonding of cracks in structural concrete. Excellent chemical resistance. 		
Coverage	oven-dried aggregate,	yields approxi surface sealing	mately 808.5 cu. in. of epoxy . Coverage varies with porosit	when mixed with 5 gal. by loose volume of mortar. Typical coverage is 150-175 ft. ² y and surface profile of substrate. Highe
Packaging	3 gal. units. 165 gal. u	nits.		
	RESULTS MAY DIFFER BA	SED UPON STATIS	EST METHODS, ACTUAL SITE COND	ON MIXING METHODS AND EQUIPMENT,
	RESULTS MAY DIFFER BA	SED UPON STATIS TION METHODS, T 2 years in orig Store dry at 4 Clear, amber. Component 'A Approximately Approximately	STICAL VARIATIONS DEPENDING UP EST METHODS, ACTUAL SITE COND inal, unopened containers 0°-95°F (4°-35°C). Condition mate (' : Component 'B' = 2:1 by volume (' 250 cps. (' 90 minutes (250 grams).	ON MIXING METHODS AND EQUIPMENT, ITIONS AND CURING CONDITIONS. rial to 65°-75°F (18°-24°C) before using.
	RESULTS MAY DIFFER BA TEMPERATURE, APPLICA Shelf Life Storage Conditions Color Mixing Ratio Viscosity (Mixed) Pot Life Tensile Properties (AS 7 day Tensil	SED UPON STATIS TION METHODS, T 2 years in orig Store dry at 4 Clear, amber. Component 'A Approximately Approximately Approximately	STICAL VARIATIONS DEPENDING UP EST METHODS, ACTUAL SITE COND inal, unopened containers 0°-95°F (4°-35°C). Condition mate ' : Component 'B' = 2:1 by volume ' 250 cps.	ON MIXING METHODS AND EQUIPMENT, ITIONS AND CURING CONDITIONS. rial to 65°-75°F (18°-24°C) before using.
	RESULTS MAY DIFFER BA TEMPERATURE, APPLICA Shelf Life Storage Conditions Color Mixing Ratio Viscosity (Mixed) Pot Life Tensile Properties (AS 7 day Tensile Elong Heat Deflection Temper Bond Strength (ASTM 0 2 day (moist cure)	SED UPON STATIS TION METHODS, T 2 years in orig Store dry at 4' Clear, amber. Component 'A Approximately Approximately Approximately TM D-638) e Strength ation at Break rature (ASTM D C-882): Hardene	STICAL VARIATIONS DEPENDING UP EST METHODS, ACTUAL SITE COND inal, unopened containers 0°-95°F (4°-35°C). Condition mate 1': Component 'B' = 2:1 by volume 1': Component 'B' = 2:1 by volu	The matrix of the formula of the fo
	RESULTS MAY DIFFER BA TEMPERATURE, APPLICA Shelf Life Storage Conditions Color Mixing Ratio Viscosity (Mixed) Pot Life Tensile Properties (AS 7 day Tensile Elong Heat Deflection Temper Bond Strength (ASTM 0 2 day (moist cure)	SED UPON STATIS TION METHODS, T 2 years in orig Store dry at 4 ¹ Clear, amber. Component ¹ A Approximately Approximately Approximately Approximately TM D-638) e Strength ation at Break rature (ASTM D C-882): Hardenee ASTM D-570) 2 rties (ASTM D	stical variations depending up est methods, actual site condition pinal, unopened containers 0°-95°F (4°-35°C). Condition mate 0°-95°F (4°-35°C). Condition mate 0° 250 cps. 100°F (250 grams). 100°F 60°F (15°F) 7,200 psi (49.6 MPa) 4.0 % 100°F (15°F) 7,200 psi (49.6 MPa) 4.0 % 100°F (15°F) 7,200 psi (49.6 MPa) 4.0 % 100°F (15°F) 7,200 psi (49.6 MPa) 4.0 % 100°F (15°F) 7,200 psi (49.6 MPa) 4.0 % 100°F (15°F) 7,200 psi (49.6 MPa) 4.0 % 100°F (15°F) 7,200 psi (49.6 MPa) 4.0 %	ON MIXING METHODS AND EQUIPMENT, ITIONS AND CURING CONDITIONS. rial to 65°-75°F (18°-24°C) before using. rial to 65°-75°F (18°-24°C) before using. c (38°C) 73°F (23°F) 7,500 psi (51.8 MPa) 4.8% ng = 264 psi) 120°F (49°C) e osi (7.6 MPa) osi (9.0 MPa) % 90°F (32°C) 7,100 psi (49.0 MPa) 10,000 psi (69.0 MPa) 11,100 psi (76.6 MPa)



How to Use Surface Preparation	grease, curing compounds, impregnations, w Preparation Work : Concrete - Should be cle nant free, open textured surface by blast cle Steel - Should be cleaned and prepared tho	aned and prepared thoroughly to achieve a laitance and contam aning or equivalent mechanical means. roughly by blast cleaning or other equivalent mechanical mean
Mixing	minutes with a low-speed (400 - 600 rpm) dri that can be used within its pot life.	Component 'A' by volume into a clean pail. Mix thoroughly for I using Sika Paddle until uniformly blended. Mix only that quanti 5 parts by loose volume of an oven-dried aggregate to 1 part nix until uniform in consistency.
Application		d surface of crack clean with oil-free compressed air. Pour ne d crack. Continue placement until completely filled. Seal undersid.
	To seal slabs - Spread neat Sikadur [®] 35, I prevent surface film. Seal interior slabs and	Hi-Mod LV LPL over slab. Allow penetration. Remove excess above-grade exterior slabs only.
		ace with neat Sikadur [®] 35, Hi-Mod LV, LPL. Place prepared epo ce the epoxy mortar using trowels. Compact and level with vibra owel. Epoxy mortar is for interior use only.
	or manual method. Set appropriate injection	v or high pressure injection. Use automated injection equipme ports based on system used. Seal ports and crack with Sikadu oxy adhesive seal has cured, inject Sikadur [®] 35, Hi Mod LV LI vice for additional information.
Limitations	 Minimum application temperature 40°F (4 Do not thin with solvents. Use oven-dried aggregate only. Maximum epoxy mortar thickness is 1.5 ir 	
	 Epoxy mortar is for interior use only. 	
	 Do not seal exterior slabs on grade. Minimum age of concrete must be 21-28 days and to seal slabs. 	, depending upon curing and drying conditions, for mortar application
		sture-vapor transmission prior to mortar or sealing slabs.
	 Not for injection of cracks under hydrostat Do not inject cracks greater than 1/4 in. (6) 	
		due to variations in lighting and/or UV exposure.
IN: SF	STRUCTIONS ON THE PRODUCT'S MOST CURRE IEET WHICH ARE AVAILABLE ONLINE AT HTTP://	E USER MUST ALWAYS READ AND FOLLOW THE WARNINGS A ENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DA USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE I N ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGAT
TC RE	READ AND FOLLOW THE WARNINGS AND INST INT PRODUCT DATA SHEET, PRODUCT LABEL AN	RUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CU ID SAFETY DATA SHEET PRIOR TO PRODUCT USE.
For	further information and advice regarding transportation, I	nandling, storage and disposal of chemical products, users should refer to cological and other safety related data. Read the current actual Safety Data Sh
Data men for e	Sheet, product label and Safety Data Sheet which are avai	d and follow the warnings and instructions on the product's most current Prod lable online at http://usa.sika.com/ or by calling Sika's Technical Service Dep: relieves the user of the obligation to read and follow the warnings and instruct Sheet, product label and Safety Data Sheet prior to
the d Buy EXP SHA THE SAL	current Product Data Sheet if used as directed within shelf I er's sole remedy shall be limited to the purchase price or rep RESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRA LI NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON AN	In to be free from manufacturing defects and to meet the technical properties ife. User determines suitability of product for intended use and assumes all ris accement of product exclusive of labor or cost of labor. NO OTHER WARRANT INTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SI CIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE F Y PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHEI AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR
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Product Data Sheet Edition 9.23.2014 Sikadur[®] 52

Sikadur[®] 52

Advanced, very-low-viscosity, moisture-tolerant epoxy injection adhesive

Description	Sikadur [®] 52 is a 2-component, 100% solids, moisture-tolerant, epoxy adhesive. It is a low-viscosity, high-strength adhesive formulated specifically for grouting both dry and damp cracks. It conforms to the current ASTM C-881, Types I and II, Grade-1, Class C and AASHTO M-235 specifications.		
Where To Use	 Use neat for gravity feed or pressure injection of cracks in structural concrete, masonry, wood, etc. Seal interior slabs and exterior above grade slabs from water, chlorides and mild chemical attack and to improve wearability. 		
Advantages	 Tenacious crack-sealing grout. 		
	 Convenient easy mix ratio A:B = 2:1 by volume. Advanced low-viscosity structural resin. 		
	 Unique, high-strength adhesive for 'can't dry' cracks. 		
Coverage	1 gal. yields 231 cu. in.		
Packaging	3 gallons units.		
	Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.)		
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.		
	Shelf Life2 years in original, unopened containers		
	Storage Conditions Store dry at 40°-95°F (4°-35°C). Condition to 65°-75°F (18°-24°C) be- fore using.		
	Color Clear, pale yellow.		
	Mixing RatioComponent 'A': Component 'B' = 2:1 by volume.		
	Viscosity (Mixed) Approximately 200 cps.		
	Pot Life Approximately 30 minutes. (60 gram mass)		
	Tensile Properties (ASTM D-638)		
	14 dayTensile Strength7,900 psi (54 MPa)Elongation at Break3.1%		
	Modulus of Elasticity 2.0 X 10 ⁵ psi (1,400 MPa)		
	Flexural Properties (ASTM D-790)		
	14 dayFlexural Strength (Modulus of Rupture)5,400 psi (37.2 MPa)Tangent Modulus of Elasticity in Bending3.8 X 105 psi (2,620 MPa)		
	Shear Strength (ASTM D-732) 14 day Shear Strength 4,300 psi (29.6 MPa)		
	Bond Strength (ASTM C-882): Hardened Concrete to Hardened Concrete		
	2 day (dry cure) Bond Strength 3,000 psi (20.6 MPa) 14 day (moist cure) Bond Strength 2,200 psi (15.1 MPa)		
	Heat Deflection Temperature (ASTM D-648)		
	14 day 122°F (50°C) [fiber stress loading = 264 psi (1.8 MPa)]		
	Water Absorption (ASTM D-570) 7 day (2 hour boil) 1.5%		
	Compressive Properties (ASTM D-695)		
	Compressive Strength, psi (MPa) 40°F* (4°C)* 73°F* (23°C)* 90°F* (32°C)*		
	8 hour - 90 (0.62)		
	16 hour - 3,000 (20.6) 7,300 (50.3)		
	1 day - 4,500 (31.0) 8,400 (57.9) 3 day 1,800 (12.4) 10,000 (68.9) 8,700 (60.0)		
	7 day 6,100 (42.0) 11,300 (77.9) 10,400 (71.7)		
	14 day 6,800 (46.8) 11,700 (80.6) 10,400 (71.7)		
	28 day 8,400 (57.9) 12,000 (82.7) 10,400 (71.7)		



Mixing
Application
Limitations

How to Use

Surface Preparation Surface must be clean and sound. It may be dry or damp, but free of standing water. Remove dust, laitance, grease, curing compounds, impregnations, waxes and any other contaminants. Preparation Work: Concrete - Should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by blast cleaning or equivalent mechanical means. Steel - Should be cleaned and prepared thoroughly by blast cleaning or other equivalent mechanical means. Proportion 1 part Component 'B' to 2 parts Component 'A' by volume into a clean pail. Mix thoroughly for 3 minutes with Sika Paddle on low-speed (400-600 rpm) drill until uniformly blended. Mix only that quantity that can be used within its pot life. To gravity feed cracks - Blow vee-notched crack clean with oil-free compressed air. Pour neat Sikadur® 52 into vee-notched crack. Continue placement until cracks are completely filled. Prior to filling, seal underside of slab if cracks reflect through. To pressure inject cracks - Use automated injection equipment or manual method. Set appropriate injection ports based on system used. Seal ports and cracks with Sikadur 31, Hi-Mod Gel, or Sikadur® 33. When the epoxy adhesive seal has cured, inject Sikadur® 52 with steady pressure. Consult Technical Service for additional information. To seal slabs - Spread neat mixture of Sikadur[®] 52 over slab using a roller or squeegee, working material thoroughly into the substrate to ensure penetration. Coverage should be uniform. Coat interior slabs and above-grade exterior slabs only. Minimum substrate and ambient temperature 40°F (4°C). Do not thin. Addition of solvents will prevent proper cure. Material is a vapor barrier after cure. Not for injection of cracks under hydrostatic pressure at the time of application. Do not inject cracks greater than 1/4 in. (6 mm) without consulting Technical Service. Do not seal exterior slabs on grade. Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure.

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Product Data Sheet Edition 10.2.2014 Sikadur[®] Crack Fix

Sikadur[®] Crack Fix

Low-viscosity, high-strength epoxy sealing system

Description	Sikadur® Crack Fix is a 2-component, 100% solids, moisture-tolerant, low-viscosity, high-strength, multi-purpose, epoxy resin adhesive. It conforms to the current ASTM C-881 and AASHTO M-235 specifications.				
Where to Use	 Gravity-feed of cracks in horizontal concrete and masonry. Low pressure injection of cracks in structural concrete, masonry, wood, etc. Grouting bolts, dowels, pins, etc. into horizontal concrete surfaces. 				
Advantages	 Formulation identical to popular, high strength adhesive Sikadur[®] 35, Hi-Mod LV. Five times stronger than concrete. Convenient easy to use, single tube cartridge - fits standard caulk guns. Deep, penetrating and tenacious bonding of cracks in structural concrete. No mess - self-mixing. 				
Coverage	1 cartridge yields approximately 10.7-11.0 cu. in. (175-180 ml) of usable epoxy resin.				
Packaging	Carton contains 12 single caulk tube-style cartridges; each cartridge packaged with 2 static mixers and 2 flow restrictors.				
	Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.				
	Shelf Life 2 years in original, unopened containers. Sterrage Conditions				
	Storage Conditions Store dry at 40°-95°F (4°-35°C). Condition material to 60°-75°F (15°-24°C) before using.				
	Color Clear, amber.				
	Mixing Ratio Component A : Component B = 2:1 by volume.				
	Viscosity (Mixed) Approximately 375 cps.				
	Pot Life Approximately 25 minutes. (60 gram mass)				
	Tack Free Time 40°F (4°C)* 73°F (23°C)* 90°F (32°C)*				
	(3-5 mils) 14-16 hrs. 3-3.5 hrs. 1.5-2 hrs.				
	Tensile Properties (ASTM D-638)7 dayTensile Strength7,000 psi (48.3 MPa)Elongation at Break6.9%				
	Flexural Properties (ASTM D-790)				
	14 dayFlexural Strength (Modulus of Rupture)11,000 psi (75.9 MPa)Tangent Modulus of Elasticity in Bending3.1 x 10⁵ psi (2,139 MPa)				
	Shear Strength (ASTM D-732)14 dayShear Strength4,800 psi (33.1 MPa)				
	Heat DeflectionTemperature (ASTM D-648)7 day[fiber stress loading = 264 psi (1.8 MPa)]121°F (49°C)				
	Bond Strength (ASTM C-882): Hardened concrete to hardened concrete2 day(moist cure)Bond Strength1,300 psi (9.0 MPa)14 day(moist cure)Bond Strength1,350 psi (9.3 MPa)				
	Water Absorption (ASTM D-570)7 day (24 hour immersion)0.27%				
	Compressive Properties (ASTM D-695)				
	Compressive Strength, psi (MPa)				
	40°F (4°C)* 73°F (23°C)* 90°F (32°C)*				
	4 hour				
	8 hour - 180 (1.2) 3,200 (22.1)				



	16 hour 1 day 3 day 7 day 14 day 28 day	- 4,000 (27.6) 6,800 (46.9) 10,300 (71.1) 12,400 (85.6)	4,500 (31.1) 6,000 (41.4) 9,000 (62.1) 11,000 (75.9) 12,000 (82.8) 13,000 (89.7)	6,300 (43.5) 9,100 (62.8) 10,500 (72.5) 10,500 (72.5) 10,500 (72.5) 10,500 (72.5)
	Compressive Modulus 7 da *Material cured and tested at the temp		psi (2,000 MPa)	
How to Use Surface Preparation	Surface must be clean, dry ar compressed air.	nd sound. Remove	dust from crack by b	rushing or by blowing clean with oil fre
Mixing	into opening. Insert one of the Crack Fix cartridge into good	enclosed static miz quality caulking gui esin approaches e	xers through twist-cap n. Point upward during nd of mixer, discard r	. Press one of enclosed "flow restrictors and attach to threading. Insert Sikadur g initial squeeze of gun's trigger to purg est of initial squeeze and portion of new
Application	Fix slowly into vee-notched co filling if cracks reflect through. To inject cracks - Set appropri	rack. Continue pla riate injection ports	cement until complete	ompressed air. Dispense Sikadur [®] Crac ely filled. Seal underside of slab prior t ce of crack with Sikadur [®] 31, Hi-Mod Ge ur [®] Crack Fix with slow steady pressure
Limitations	Consult Technical Service for	additional informa abient temperature nust be 21-28 days rening surface. ubjected to osmot r than 1⁄4 in. (6 mm	tion. 40°F (4°C). Maximur s, depending on curin c or hydrostatic press) Consult Technical S	n substrate temperature is 95°F (35°C g and drying conditions. sure during application. service at 1-800-933-SIKA.

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Product Data Sheet Edition 2.24.2015 Sikadur® Crack Weld

Sikadur[®] Crack Weld

Crack Injection Kit

Description	Two component, low viscosity, fast curing epoxy sealing system for repairs to cracks in concrete and solid masonry. Conforms to ASTM C-881.				
Where to Use	 Low pressure injection of cracks in structural concrete and solid masonry. Gravity feed cracks in horizontal concrete and horizontal solid masonry. 				
Advantages	 As strong as concrete. Convenient mix in the nozzle cartridge system. Cartridges fit standard caulking guns. 				
Coverage	Capseal will yield Approx. 300 mL Injection resins will yield Approx. 250 mL (See Charts for specific coverage rates)				
Packaging	 Capseal (x2) 300 ml Injection Resin (x2) 250 ml Capseal mixer nozzle (x2) Capseal applicator fan (x2) Cartridge Flow Restrictor (x1) Injection resin mixers with extended tube Push fit connector (x1) Injection Ports (x16) Pair of Gloves (x2) Wooden Applicator (Tongue Depressor) Instructional DVD (x1) 				
	Typical Data (Material and curing condition RESULTS MAY DIFFER BASED UPON STATISTI TEMPERATURE, APPLICATION METHODS, TES Shelf Life 18 months in original Storage Conditions Store dry at 40° - 75° Product Conditioning Condition dry at 40° - For Sikadur Injection Resin: Compressive Strength (ASTM D-695), psi MPa 4 hours 8 hours 1 day 3 days 7 days 14 days 28 days (68.9) Compressive Modulus (ASTM D-695) Viscosity Mixed (ASTM D-2393) Pot Life (ASTM C-881) Tensile Strength (ASTM D-638) Elongation at Break (ASTM D-638) Flexural Strength (ASTM D-732)	CAL VARIATIONS DE T METHODS, ACTU/ , unopened conta F (5°-24°C) -75°F (5°-24°C)	40° F - - - - - - - - - - - - - - - - - - -	IXING METHODS AND	
	Bond Strength (ASTM D-897) 2 day 14 days Water Absorption (ASTM D-570) Heat Deflection Temp. (ASTM D-648) VOC:	350 psi (concret 450 psi (concret 0.24% 109.7° F Capseal: Inj. Resin:			



For Sikadur Capseal:

Temp. (°F)	Gel Time (min)	Ready for Injection (min)
40	18	145
50	10	85
68	6	50
77	5	40
86	4	35

Coverage Rates:

Consumption of Crack Injection Resin in a crack					
	Length (in) Width (in) Depth (in) Cu. Inches # of Tube				# of Tubes
1/16" wide crack - 1" deep and 10 ft. Long	120	0.062	1	7.44	0.4
1/16" wide crack - 1.5" deep and 10 ft. Long	120	0.062	1.5	11.16	0.6
1/16" wide crack - 2" deep and 10 ft. Long	120	0.062	2	14.88	0.8
1/8" wide crack - 1" deep and 10 ft. Long	120	0.125	1	15	0.8
1/8" wide crack - 1.5" deep and 10 ft. Long	120	0.125	1.5	22.5	1.2
1/8" wide crack - 2" deep and 10 ft. Long	120	0.125	2	30	1.6
1/4" wide crack - 1" deep and 10 ft. Long	120	0.25	1	30	1.6
1/4" wide crack - 1.5" deep and 10 ft. Long	120	0.25	1.5	45	2.4
1/4" wide crack - 2" deep and 10 ft. Long	120	0.25	2	60	3.2

Consumption of Crack Injection Paste on a crack					
Length (in) Width (in) Depth (in) Cu. Inches # of Tubes				# of Tubes	
1" Wide Strip - 10 ft. Long and 1/8" thick	120	1	0.125	15	0.8
1" Wide Strip - 10 ft. Long and 1/4" thick	120	1	0.25	30	1.6
1.5" Wide Strip - 10 ft. Long and 1/8" thick	120	1.5	0.125	22.5	1.2
1.5" Wide Strip - 10 ft. Long and 1/4" thick	120	1.5	0.25	45	2.4
2.0" Wide Strip - 10 ft. Long and 1/8" thick	120	2	0.125	30	1.6
2.0" Wide Strip - 10 ft. Long and 1/4" thick	120	2	0.25	60	3.2

How to Use	
Surface Preparation	Substrate Preparation - For a successful application, very thorough preparation is a must. The crack to be treated must be dry and free from oil, grease, dust and other contaminants. Any loose material must be blown or brushed clear.
	For Vertical Cracks (walls, columns, beams) - The surface of the crack should be sealed with the fast set- ting Sikadur Capseal supplied. The Capseal should also be used to affix the injection ports. The distance between the injection ports should be greater than the estimated depth of the crack (typically 1.5 times. If depth is not known, consult technical services).
	For Horizontal Cracks (floors, slabs, etc.) - The Sikadur Capseal and injection ports may not be required as the resin may be introduced into the crack by gravity.
Mixing	Cartridge Set Up:
	Sikadur Capseal - Open screw cap, cut film to remove metal clip and attach nozzle, extrude waste until a uniform color is achieved.
	Sikadur Injection Resin - Remove screw cap, insert outlet plugs, attach mixer nozzle with extension tube*. Extrude waste to form a homogeneous mix. Use the push fit connector to connect to injection port.
	*For horizontal cracks (floor, slab, etc.), remove the extension tube.
Application	For Vertical Cracks (walls, columns, beams) - The resin should be injected into the first (lower) port. When the resin begins to flow from the adjacent port, close off the first port and disconnect the hose. Reconnect to the second port and inject until resin starts to flow from the third; this process is repeated until the whole crack has been injected. After the resin has been allowed to cure, the injection ports and capseal should be removed and any holes or voids should be filled.
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	T PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

	For Horizontal cracks (floors, slabs, etc.) - To gravity feed cracks, seal the underside of the substrate prior to filling if the crack reflects through. Dispense the injection resin slowly into the vee-notched crack. Continue injecting until completely filled.
Removal	After the resin has been allowed to cure, the injection ports and capseal should be mechanically removed and any holes or voids should be filled.
Limitations	 Minimum substrate and ambient temperature 40°F (5°C). Maximum substrate temperature 95°F (45°). Minimum age of concrete must be 21-28 days, depending on curing and drying conditions. Do not apply over wet, glistening surfaces. Not for injection of cracks subjected to osmotic or hydrostatic pressure during application. Do not inject cracks greater than 1/4 in (6mm). Consult Sika Technical Services. Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure. NOT FOR USE AS AN ANCHORING ADHESIVE.

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Product Data Sheet Edition 12.5.2014 Sikadur[®] Injection Gel

Sikadur[®] Injection Gel

High-modulus, high-strength, structural, non-abrasive, smooth epoxy paste adhesive

epoxy. When mixed it gives a smooth, non-abrasive, paste adhesive. It conforms to the current AST I and IV, Grade-3, Class-C and AASHTO M-235 specifications. Where to Use Structural crack repairs not exceeding 1/4 in. (6 mm) width. Mechanical grouting, machine and 'robotic' base plates, bearing pads, etc. Waterproofing tunnels, cable vaults, tanks, basements, etc. Re-anchoring of veneer masonry. Consult a design professional prior to use. Wood-truss repairs. Preventive maintenance - grout large cracks on new or existing structures to seal off reinforcing elements of corrosion. Anchor grouting, bolts, dowels, pins and special fasteners. Consult a design professional prior As a pick-proof sealant around windows, doors, lock-ups, etc. inside correctional facilities. Advantages Unique, non-abrasive texture permits application with automated pressure-injection equipment. Tolerant of moisture before, during, and after cure. High-modulus, high-strength, structural-paste adhesive. Excellent adhesion to masonry, concrete, wood, steel and most structural materials. Paste consistency ideal for vertical and overhead grouting of cracks. Convenient easy mix ratio A:B = 1:1 by volume. Excellent lubricity for deep penetration. 1 gal. yields 231 in ³ of epoxy paste adhesive.		
Mechanical grouting, machine and 'robotic' base plates, bearing pads, etc. Waterproofing tunnels, cable vaults, tanks, basements, etc. Re-anchoring of veneer masonry. Consult a design professional prior to use. Wood-truss repairs. Preventive maintenance - grout large cracks on new or existing structures to seal off reinforcing elements of corrosion. Anchor grouting, bolts, dowels, pins and special fasteners. Consult a design professional prior As a pick-proof sealant around windows, doors, lock-ups, etc. inside correctional facilities. Advantages Unique, non-abrasive texture permits application with automated pressure-injection equipment. Tolerant of moisture before, during, and after cure. High-modulus, high-strength, structural-paste adhesive. Excellent adhesion to masonry, concrete, wood, steel and most structural materials. Paste consistency ideal for vertical and overhead grouting of cracks. Convenient easy mix ratio A:B = 1:1 by volume. Excellent lubricity for deep penetration. 1 gal. yields 231 in ³ of epoxy paste adhesive.	Description	Sikadur [®] Injection Gel, is a 2-component, 100% solids, moisture-tolerant, high-modulus, high-strength, structura epoxy. When mixed it gives a smooth, non-abrasive, paste adhesive. It conforms to the current ASTM C-881, Types I and IV, Grade-3, Class-C and AASHTO M-235 specifications.
 Tolerant of moisture before, during, and after cure. High-modulus, high-strength, structural-paste adhesive. Excellent adhesion to masonry, concrete, wood, steel and most structural materials. Paste consistency ideal for vertical and overhead grouting of cracks. Convenient easy mix ratio A:B = 1:1 by volume. Excellent lubricity for deep penetration. Coverage 1 gal. yields 231 in³ of epoxy paste adhesive. 	Where to Use	 Mechanical grouting, machine and 'robotic' base plates, bearing pads, etc. Waterproofing tunnels, cable vaults, tanks, basements, etc. Re-anchoring of veneer masonry. Consult a design professional prior to use. Wood-truss repairs. Preventive maintenance - grout large cracks on new or existing structures to seal off reinforcing steel from the elements of corrosion. Anchor grouting, bolts, dowels, pins and special fasteners. Consult a design professional prior to use.
	Advantages	 High-modulus, high-strength, structural-paste adhesive. Excellent adhesion to masonry, concrete, wood, steel and most structural materials. Paste consistency ideal for vertical and overhead grouting of cracks. Convenient easy mix ratio A:B = 1:1 by volume.
Packaging 4 gal units	Coverage	1 gal. yields 231 in ³ of epoxy paste adhesive.
rackaging - gai. units.	Packaging	4 gal. units.

Typical Data (Mate	erial and curing condi	itions @ 73°F (23°C) and	d 50% R.H.)
TEMPERATURE, APPLICATI	ON METHODS, TEST METHO	DDS, ACTUAL SITE CONDITION	IXING METHODS AND EQUIPMENT, IS AND CURING CONDITIONS.
Shelf Life	2 years in original, un	opened container.	
Storage Conditions	Store dry at 40°-95°F using.	(4°-35°C). Condition ma	terial to 65°-75°F (18°-24°C) before
Color	Gray.		
Mixing Ratio	Component 'A' : Com	ponent 'B' = 1:1 by volum	ne.
Consistency	Smooth, non-sag pas	ste.	
Pot Life	Approximately 30 mir	nutes. (60 gram mass)	
Elonga	e Strength 4,30 ation at Break 1.3%	0 psi (29.7 MPa) 5 (10⁵ psi (2,829 MPa)	
Flexural Properties (ASTM D-790)	,	
-	al Strength (Modulus of nt Modulus of Elasticity	• /	6,700 psi (46.2 MPa) 7.5 x 10⁵ psi (5,175 MPa)
Shear Strength (AST	M D-732) 14 day	Shear Strength	3,700 psi (25.5 MPa)
Bond Strength (ASTM Hardened concrete to 2 day (dry cure) 2 day (moist cure 14 day (moist cur	b hardened concrete Bond Strength) Bond Strength	3,000 psi (20.6 MPa) 2,500 psi (17.2 MPa) 2,600 psi (17.9 MPa)	
Hardened concrete to	steel		
	Bond Strength Bond Strength	3,300 psi (22.7 MPa) 2,600 psi (17.9 MPa)	
	erature (ASTM D-648 stress loading = 264 psi	,	120°F (49°C)
Water Absorption (As	STM D-570) 7 day	(24 hr. immersion)	0.11%



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	Compressive Properties (AST			
	Compressive Strength, psi (MF	Pa) 40°F*** (4°C)	73°F*** (23°C)	90°F (32°C)
	4 hour 8 hour 16 hour 1 day 3 day 7 day	100 (0.7) 1,400 (9.6) 7,600 (52.4) 9,000 (62.1) 10,000 (68.9)	300 (2.1 MPa) 7,500 (51.7) 8,000 (55.1) 8,500 (58.7) 9,000 (62.1) 10,000 (68.9)	300 (2.1) 6,500 (44.8) 7,000 (48.3) 9,500 (65.5) 10,000 (68.9) 10,000 (68.9) 10,000 (68.9)
	14 day 28 day	10,000 (68.9)	10,000 (68.9)	10,000 (68.9)
	Compressive Modulus **Cured and tested at the temperatures indi *See limitations section for further information		1,863 MPa)	
How to Use				
Surface Preparation	 Surface must be clean and sound. It curing compounds, impregnations, Preparation Work: 			move dust, laitance, greas
	Concrete - Should be cleaned and p blast-cleaning or equivalent mechan Steel - Should be cleaned and prep	nical means.		e, open textured surface
Mixing	Sikadur [®] Injection Gel is specially of injection equipment. Follow the reco Pre-mix each component . Propor pail. Mix thoroughly for 3 minutes wi that quantity that can be applied wit	designed and formulated ommendations and direct tion equal parts by volur th Sika paddle on low-sp	d to be mixed and applied tions supplied by the equi ne of Component 'B' and	pment manufacturer. Component 'A' into a clea
Application	As a structural adhesive - Apply the substrate for positive adhesion. See should be kept as thin as possible, To seal injection ports and cracks	ne neat mixed Sikadur [®] I cure the bonded unit firr not to exceed more than s for injection grouting	nly into place until the adl 1/8 in. (3 mm). - Place the neat mixed ma	hesive has cured. Glue lin aterial over the cracks to l
	pressure-injected and around each To anchor bolts, dowels, pins - An is typically 10-15 times the bolt dian	nular space around bolt	should not exceed 1/8 in. (
	To grout cracks - Use automated on the system used. Cracks up to 1 To anchor bolts, dowels, pins in I 933-7452.	/4 in. (6 mm) wide may l	be grouted.	
	To seal baseplates and bearing p Apply up to 1/4 in. (6 mm) thick.			
	As a pick-proof sealant - use auto the area being sealed. Seal with ne			ize bead of material arou
Limitations	 Minimum substrate and ambient Do not thin. Addition of solvents v Material is a vapor barrier after co Not for sealing cracks under hydr Not an aesthetic product. Color n 	will prevent proper cure. ure. ostatic pressure.		posure.
II S P T	PRIOR TO EACH USE OF ANY SIKA PRO NSTRUCTIONS ON THE PRODUCT'S MO GHEET WHICH ARE AVAILABLE ONLINE PARTMENT AT 800.933.7452 NOTHING CO TO READ AND FOLLOW THE WARNINGS RENT PRODUCT DATA SHEET, PRODUCT	ST CURRENT PRODUCT AT HTTP://USA.SIKA.CO INTAINED IN ANY SIKA M AND INSTRUCTIONS FO	T DATA SHEET, PRODUCT M/ OR BY CALLING SIKA'S ATERIALS RELIEVES THE R EACH SIKA PRODUCT A	LABEL AND SAFETY DA S TECHNICAL SERVICE I USER OF THE OBLIGATI AS SET FORTH IN THE CU
KE	EP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH O	F CHILDREN. NOT FOR INTERNAL	CONSUMPTION. FOR INDUSTRIAL USE	E ONLY. FOR PROFESSIONAL USE OF
ac	r further information and advice regarding tran tual Safety Data Sheets containing physical, eco fore using the product. In case of emergency, c	logical, toxicological and oth	er safety related data. Read the	current actual Safety Data Sh
Da me for	ior to each use of any Sika product, the user mus ta Sheet, product label and Safety Data Sheet w ent at 800-933-7452. Nothing contained in any Sik r each Sika product as set forth in the current Pi oduct use.	hich are available online at h a materials relieves the user	tp://usa.sika.com/ or by calling of the obligation to read and fol	Sika's Technical Service Dep low the warnings and instruct
the Bu EX SH TH SA	KA warrants this product for one year from date e current Product Data Sheet if used as directed uyer's sole remedy shall be limited to the purchas PRESS OR IMPLIED SHALL APPLY INCLUDING IALL NOT BE LIABLE UNDER ANY LEGAL THEOI IE USE OF THIS PRODUCT IN A MANNER TO INFR ALE OF SIKA PRODUCTS ARE SUBJECT SIK ALLING 201-933-8800.	within shelf life. User determi e price or replacement of prov ANY WARRANTY OF MERCH RY FOR SPECIAL OR CONSE INGE ON ANY PATENT OR AN	nes suitability of product for int Juct exclusive of labor or cost o ANTABILITY OR FITNESS FOR QUENTIAL DAMAGES. SIKA SH Y OTHER INTELLECTUAL PROP	ended use and assumes all ris f labor. NO OTHER WARRANT A PARTICULAR PURPOSE. S ALL NOT BE RESPONSIBLE F ERTY RIGHTS HELD BY OTHE
R Vi	Sit our website at usa.sika.com sit our website at usa.sika.com sita Corporation Sika Canada 201 Polito Avenue 601 Delmar A Lyndhurst, NJ 07071 Pointe Claire Phone: 800-933-7452 Quebec H9R Fax: 201-933-6225 Phone: 514-6	Avenue Carretera Avenue Fracc. In 4A9 Corregid	ika sales office, contact your re kicana S.A. de C.V. a Libre Celaya Km. 8.5 dustrial Balvanera ora, Queretaro	

Product Data Sheet Edition 9.23.2014 Sikadur[®] 55 SLV

Sikadur[®] 55 SLV

Super low-viscosity, moisture-tolerant epoxy resin, crack healer/penetrating sealer

Description	Sikadur [®] 55 SLV is a 2-component, 100% solids, moisture-tolerant, epoxy crack healer / penetrating sealer, having a fast tack-free time to minimize downtime. It is a super low-viscosity, high-strength adhesive formulated specifically for sealing both dry and damp, existing, non-dynamic cracks. It conforms to the current ASTM C-881, Types I and II, Grade-1, Class-C* and AASHTO M-235 specifications. * except for gel time
Where to Use	 Sikadur[®] 55 SLV seals cracked concrete. For interior slabs and exterior above-grade slabs. For elevated horizontal decks, parking garages and other structures exposed to foot and pneumatic tire traffic.
Advantages	 Super low viscosity/low surface tension for excellent penetration into existing cracks. Seals existing cracks by gravity down to 2 mils (0.002" / 0.05 mm) in width. Prolongs life of cracked concrete. Penetrates and seals surface from water absorption, chloride-ion intrusion, and chemical attack (patent pending technology). Improves concrete surface by reducing water and chloride intrusion. Can be open to traffic in 6 hours at 73°F (23°C). High bond strength, even in damp cracks. U.S. Patent No. (pending) for ultra low viscosity healer/sealer to strengthen cracked concrete.
Coverage	1 gal. (3.8 liters) yields 231 cu. in. (3,785 cm ³) Typical coverage is 150-175 ft ² /gal. (3.7-4.3 m ² /L) for surface sealing. Coverage varies with porosity and surface profile of substrate. Higher porosity concrete will reduce coverage. For crack healing, follow Application instructions and allow to pond over cracks.
Packaging	3 gal. (11.35 l) unit = 'A' = 2 gal. (7.6 l) + 'B' = 1 gal. (3.8 l)

Typical Data [Material and curing conditions @ 73°F (23°C) and 50% R.H.]

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life	2 years in original, unopened containers				
Storage Conditions	Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F (18°-24°C) before using.				
Color	Clear, amber				
Mixing Ratio	Component 'A' : Component 'B' = 2:1 by volume				
Viscosity (Mixed)	Approximately 105 cps				
Pot Life	Approximately 20 minutes				
Tack-Free Time	40°F (4°C)* > 11 hrs.	60°F (15°C) * 11 hrs.	73°F (23°C)* 6 hrs.	90°F (32°C)* 2.5 hrs.	
Tensile Properties (A 7 day	STM D-638) 73°F (23°C) Tensile Strength Elongation at break	7,100 psi (48.9 MF 10%	Pa)		
Bond Strength (ASTM Hardened Concre	/ C-882) te to Hardened Concrete	2 day (moist cure 14 day (moist cu			
Hardened Concre	te to Steel	2 day (moist cure 14 day (moist cur		,	
Flexural Properties (ASTM D-790)				
7 day	Flexural Strength Tangent Modulus of Elastic	· · ·	(58.6 MPa) psi (2,206 MPa)		
Shear Strength (AST	VI D-732) 7 day	5,800 psi	(40.0 MPa)		
Heat Deflection Temperature (ASTM D-648) 7 day					
[fiber stress loading = 2	264 psi (1.8 MPa)	110°F (43	3°C)		
Water Absorption (AS	5TM D-570) 7 day (24 h	nour immersion)	0.60%		



	Compressive Prop	perties (ASTM D-	695)		
	Compressive Stre 1 day 3 day 7 day 14 day 28 day	ngth, psi (MPa) 40°F (4°C)* - 2,000 (13.8) 7,800 (53.8) 9,600 (66.2) 11,700 (80.7)	60°F (15°C)* 320 (2.2) 6,500 (44.8) 10,400 (71.7) 11,000 (75.8) 12,000 (82.7)	73°F (23°C)* 1,100 (7.6) 8,300 (57.2) 10,900 (75.1) 11,800 (81.4) 12,000 (82.7)	90°F (32°C)* 4,800 (33.1) 8,000 (55.2) 8,300 (57.2) 10,000 (68.9) 10,000 (68.9)
	Compressive Mod	lulus 7 day	3.0 x 10⁵	psi (2,068 MPa)	
How to Use Surface Preparation	compounds, waxes means (i.e. shot bla	s, impregnations, asting, sandblastin er Cleaning or Hig	foreign particles, g, etc.). For best	coatings and disintegresults, substrate shou	st, laitance, grease, oils, curir grated materials by mechanic uld be dry. Surfaces prepared b uld be allowed to dry for 24 hr
Mixing		jiffy mixer on a low			ail. Mix thoroughly for 3 minute y blended. Mix only that quanti
Application	material over area ai epoxy with roller leav sand before applying A second treatment treatment, wait a mir oven-dried 20/40 sili sq. ft Allow to cure	nd allow to pond ov ving no visible surfa g Sikadur® 55 SLV. may be required or nimum of 20-30 mil ca sand or similar s 6 hours minimum a	er cracks. Let mate ce film. For cracks Seal cracks from n very porous subs nutes at 73°F (23°C sand. Distribute eve at 73°F (23°C). Ref	erial penetrate into crack greater than 1/8 in. (3 n underside, when access trates. Apply second track C) before broadcasting enly over the surface to	flat squeegee or broom. Sprea ks and substrate. Remove exces nm) wide, fill crack with oven-drie sible, to prevent leakage. eatment before broadcasting Aft sand. Cover with broadcast of a excess at a rate of 30-40 lbs./10 nd open to traffic once epoxy ha on
	To pressure inject cracks with Sikadur When the epoxy ad	cracks: Use auto [®] 31, Hi-Mod Gel, hesive has cured, additional information	mated injection eq Sikadur [®] Injection inject Sikadur [®] 55 ation. Mock ups to	uipment. Set appropria Gel or Sikadur [®] Anch SLV with steady press ascertain penetration	ate injection ports. Seal ports an norFix 2/Sikadur® AnchorFix 50 ure. Consult Technical Service on job site conditions is strong
Limitations	cause surface wh Not an aesthetic Sealed concrete Allow sufficient ti Application temp Minimum ambier Do not inject crac Minimum age of Not designed to s Penetration result	or barrier after cur in is imminent. We hitening. product. Color ma surface may appe me for the substra erature of substra t and substrate te cks greater than 1 concrete is 21-28 seal or inject cracl ts will vary. Facto d material), geome	e. ater exposure or h ar blotchy due to the to dry after rain te must be minimum mperature 40°F (- /4 in. (6 mm) Cor days, depending us under hydrosta rs that may imped etry of crack, conc	ations in lighting and/ differential absorption n or other inclement co um 5°F (3°C) above th 4°C). Maximum applic usult Technical Service on curing and drying o tic pressure during ap e penetration include, prete porosity, and dirt	onditions. ne dew point. ation temperature 95°F (35°C) e at 1-800-933-SIKA. conditions. plication. but are not limited to, tempera
INS SH PA TO RE	STRUCTIONS ON THE I IEET WHICH ARE AVAIL RTMENT AT 800.933.74 P READ AND FOLLOW T INT PRODUCT DATA SH	PRODUCT'S MOST LABLE ONLINE AT 52 NOTHING CONT THE WARNINGS AN IEET, PRODUCT LA	CÚRRENT PRODU HTTP://USA.SIKA. AINED IN ANY SIKA D INSTRUCTIONS BEL AND SAFETY	JCT DATA SHEET, PRO COM/ OR BY CALLING A MATERIALS RELIEVE FOR EACH SIKA PROD DATA SHEET PRIOR TO	D FOLLOW THE WARNINGS AN DUCT LABEL AND SAFETY DAT SIKA'S TECHNICAL SERVICE D S THE USER OF THE OBLIGATIC UCT AS SET FORTH IN THE CU O PRODUCT USE. RIAL USE ONLY. FOR PROFESSIONAL USE ON
actu befo Data men for e	al Safety Data Sheets conta re using the product. In cas r to each use of any Sika pro Sheet, product label and S t at 800-933-7452. Nothing c pach Sika product as set for	ining physical, ecolog se of emergency, call (oduct, the user must al afety Data Sheet whicl ontained in any Sika n	ical, toxicological and CHEMTREC at 1-800-4 ways read and follow th are available online a naterials relieves the u	other safety related data. R 24-9300, International 703-5 ne warnings and instruction thttp://usa.sika.com/ or by ser of the obligation to read	is on the product's most current Produ calling Sika's Technical Service Depa and follow the warnings and instruction
SIKA the c Buyy EXP SHA THE SAL CAL	Lurrent Product Data Sheet i er's sole remedy shall be lim RESS OR IMPLIED SHALL A LLL NOT BE LIABLE UNDER USE OF THIS PRODUCT IN E OF SIKA PRODUCTS A LING 201-933-8800.	f used as directed with ited to the purchase pi APPLY INCLUDING AN ANY LEGAL THEORY I MANNER TO INFRING RE SUBJECT SIKA'S	in shelf life. User deterice or replacement of p Y WARRANTY OF MER FOR SPECIAL OR CON E ON ANY PATENT OR	rmines suitability of produc product exclusive of labor o CHANTABILITY OR FITNES SEQUENTIAL DAMAGES. S ANY OTHER INTELLECTUA TIONS OF SALE AVAILAB	and to meet the technical properties t for intended use and assumes all rish r cost of labor. NO OTHER WARRANTII S FOR A PARTICULAR PURPOSE. SII IKA SHALL NOT BE RESPONSIBLE FC L PROPERTY RIGHTS HELD BY OTHER LE AT HTTP://USA.SIKA.COM/ OR I
	t our website at usa.sika. ional Information and Sal Sika Corporation 201 Polito Avenue Lyndhurst, NJ 07071 Phone: 800-933-7452 Fax: 201-933-6225		c. Sika hue Carre Fracc 9 Corre -2610 C.P. 7	st Sika sales office, contact Mexicana S.A. de C.V. tera Libre Celaya Km. 8.5 . Industrial Balvanera gidora, Queretaro	0-933-SIKA NATIONWIDE your regional center.

Fracc. Industrial Balvane Corregidora, Queretaro C.P. 76920 Phone: 52 442 2385800 Fax: 52 442 2250537



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SikaPronto® 19 TF Fast traffic time, high molecular weight methacrylate, crack healer/penetrating sealer

Description	SikaPronto [®] 19 TF is a 2-component, rapid-curing, solvent-free, high molecular weight methacrylate, crack healer/penetrating sealer, with an extremely fast traffic time to minimize downtime.			
Where to Use	 Use on grade, above and below grade on concrete and mortar. SikaPronto[®] 19 TF seals surface of concrete from water and chlorides. For horizontal decks, slabs, patios, driveways, parking garages, and other substrates exposed to foot and pneumatic-tire traffic. 			
Advantages	 Penetrates cracks by gravity. Structurally improves concrete surface. Opens to traffic in under 3 hours. Easy-to-use, 2-component system. Does not produce a vapor barrier. Low viscosity for easy, topical applications and excellent penetration into cracks. Low odor. High bond strength. Prolongs life of cracked concrete. As a penetrating sealer, SikaPronto[®] 19 TF reduces water absorption and chloride-ion intrusion. 			
Coverage	Typical coverage is 90-150 ft ² /gal. for crack healing and surface sealing. Coverage varies with porosity and surface profile of substrate. Higher porosity will reduce coverage.			
Packaging	1 gal. units, 4/carton; 4.5 gal. units.			
	Shelf LifeComponent 'A': 3 months in original, unopened container. Component 'B': 6 months in original, unopened container.Storage ConditionsStore dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F (18°- 24°C) before using. Storage at higher temperatures may cause mate- to the temperatures may cause mate-			
	rial to pre-polymerize and will reduce shelf life. Color Dark purple when liquid; light amber after cure.			
	Mixing Ratio Plant-proportioned kit; mix entire unit.			
	Methacrylate Monomer Viscosity 25 cps maximum.			
	Pot Life Approximately 15 minutes.			
	Bulk Cure Time 90 minutes maximum.			
	Traffic Time 3 hours maximum.			
	Flexural Properties (ASTM D-790)			
	1 day Flexural Strength (Modulus of Rupture) 2,500 psi (17.2 MPa)			
	Bond Strength (ASTM C-882): Hardened concrete to hardened concrete2 day(dry cure)Bond Strength2,100 psi(14.4 MPa)14 day(moist cure)Bond Strength2,300 psi(15.8 MPa)			
	Compressive Properties (ASTM D-695) Compressive Strength, psi (MPa)			
	40°F* (4°C) 73°F* (23°C) 90°F* (32°C) 1 hour - 1,000 (6.8) 1,900 (13.1) 2 hour - 2,300 (15.8) 2,700 (18.6) 1 day 1,800 (12.4) 2,900 (20.0) 3,500 (24.1) 7 day 3,500 (24.1) 3,100 (21.3) 4,300 (29.6)			
	* Material cured and tested at the temperatures indicated. RIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND ISTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA HEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE ARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION O READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR ENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.			

How to Use	
Surface Preparation	Substrate must be clean, sound and free of surface moisture. Remove dust, laitance, grease, oils, curing com- pounds, waxes, impregnations, foreign particles, coatings and disintegrated materials by mechanical means (i.e., blast cleaning). For best results, substrate should be dry. However, a saturated surface dry condition is acceptable.
Mixing	Before adding 'B' Component, mix 'A' Component for 30 seconds with a low-speed drill using a Sika paddle. Empty entire contents of 'B' Component into pail containing 'A' Component. Mix for 3 minutes with a low speed drill (400-600 rpm) using a Sika paddle. Caution: Mix only that quantity that can be placed within the pot life. Material should be quickly poured from pail onto concrete surface to prolong working life.
Application	SikaPronto [®] 19 TF is applied to horizontal surfaces by roller, squeegee or broom. Spread material over area and allow to pond over cracks. Let material penetrate into cracks and substrate; remove excess material leaving no visible surface film. For cracks greater than 1/8 in. (3 mm) wide, fill crack with oven-dried sand before applying SikaPronto [®] 19 TF. Seal cracks from underside, when accessible, to prevent leakage.
	A second treatment may be required on very porous substrates. Apply second treatment before broadcasting. After treatment, wait at least 20 minutes at 73°F (23°C); cover with light broadcast of a dry 8/20 or similar sand. Distribute evenly over the surface at a rate of 15 to 20 lbs./100 ft² Allow to cure 3 hours at 73°F (23°C). Remove any loose sand and open to traffic. Consult Sika Technical Service for additional information.
Limitations	 Do not delay broadcasting more than 20 minutes @ 73°F (23°C). Do not thin. Addition of solvents will prevent proper cure. Minimum ambient and substrate temperature 35°F (2°C). Minimum age of concrete is 21-28 days, depending on curing and drying conditions. Sealed concrete surface may appear blotchy due to differential absorption. Not designed to seal cracks subject to hydrostatic pressure at the time of application.

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KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY.

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

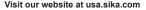
SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.

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Product Data Sheet Edition 5.4.2016 SikaFix HH+

SikaFix[®] HH+

Hydrophobic, expanding, polyurethane, chemical grout

Description	SikaFix HH+ is a hydrophobic polyurethane foam grout that, when used with accelerator, is de- signed to stop water infiltration and fill voids outside a structure or joint and cracks in concrete structures. It may also be used in applications with high pressure flowing water.
Where to Use	 Fill joints or cracks in concrete structures that exhibit some movement Fill voids such as rock fissures, crushed fault or gravel layers May be used in applications with high pressure water flow Curtain wall grouting below grade structures
Advantages	 Easy to apply, one component with accelerator Hydrophobic, only a small amount of water is needed for reaction Expands up to 30 times the liquid volume Non-flammable Contains no volatile solvents
Packaging	5 gal. metal pail. SikaFix Accelerator is available in 1 pint containers and SikaFix Pump Flush is available in 5 gal. pails. Sold separately.

Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Self Life	1 year in original unopened cont	lainer
Storage	Store in a dry area between 40°	F - 90°F (4°C - 32°C) using original re-sealable containers
VOC	0 g/L	
Uncured	1000/	
Solids	100%	
Viscosity	700 cps @ 74°F (23°C)	ASTM D1638
Color	Amber	
Specific Gravity	1.13	
Flashpoint COC method	>200°F	ASTM D93
Toxicity	Non-toxic	
SikaFix Accelerator		
Appearance	Transparent liquid	
Viscosity	25 cps @ 74°F (23°C)	ASTM D1638
Specific Gravity	.95	
Flashpoint	216°F	ASTM D3278-96
Cured		
Density	4 lbs/ft ³	ASTM D1622
Tensile Strength	29 psi	ASTM D638
Elongation	44%	ASTM D412
Shear	17 psi	ASTM C273
Absorption	<1%	ASTM D2842
Shrinkage	<1%	
Service Temperature	180°F (82°C) max	
	(

Values given are not intended to be used in specific preparation



Cure Mechanism	Temperature	Gel time in minutes/seconds	
	50° F (10° C)	3 m 15 s	1
	68° F (20° C)	2 m 10 s	1
	77° F (25° C)	1 m 20 s	1
	86° F (30° C)	1 m 10 s	1
	recommended 5 gallon:1 pint ra	tor dosage, corresponding with the tio of SikaFix HH+ to SikaFix Accelerator. tated by shaking the container prior to use.	
How to Use			
Surface Preparation	When the crack is contaminated on the outside, it will be necessary to clean the crack surface so that the crack can be exactly located. If the crack is wide or high water flows are encountered, it will be necessary to seal the surface of the crack with a surface sealing material (SikaSet Plug or open cell polyurethane foam saturated with SikaFix HH+). The surface sealing can be done before or after drilling the injection holes, depending on the particular situation.		
Mixing	Prior to installation, the material should be agitated by vigorously shaking the 5-gallon pail or by mix- ing with a jiffy mixer, bung mixer or by hand. Prior to using SikaFix Accelerator, the container should be shaken vigorously as the contents may settle during storage. For normal use, each 5 gallon unit of SikaFix HH+ should be used with one pint container of SikaFix Accelerator, a dosage of 2.5%. The grout should never be used with more than 5% SikaFix Accelerator. Excess acceleration will cause vigorous expansion that is prone to shrinkage. Pour the desired amount of SikaFix HH+ into a clean pail. Measure the appropriate amount of SikaFix Accelerator and pour it into the SikaFix HH+ and mix adequately.		
Application	Begin by drilling 5/8" diameter holes along the side of the crack at a 45 degree angle. Drill the hole to intersect the crack midway through the substrate. Install injection packers in the holes and tighten. Spacing of the injection ports depends on crack width, but normal varies from 6" to 36". It is always necessary to flush the drilled holes with water to remove debris and drill dust from the holes and crack. This will also ensure that the crack is wet enough to react with the grout when it is introduced to the crack. Begin the injection of the grout at the lowest packer installed on a vertical crack or at the first packer flushed for a horizontal crack. During the injection, you will notice that the SikaFix HH+ displaces water from the crack. Continue injecting until the grout appears at the adjacent packer hole. Stop pumping and reinstall the packer in the adjacent hole. Tighten the packers have been grouted. Disconnect and go back to the first packer and inject all the ports for the second time if necessary. Some ports may take additional grout, which will fill up and further densify the material in the crack. Continue process until the length of the prepared crack is injected. Note: Injection pressure will vary from 200 psi to 2500 psi depending on the width of the crack, thickness of concrete and condition of concrete.		
Removal	to a solid on the surface		moved with a scraper as long as it is not cure hove with a wire brush or hand held grinders s.
Tooling & Finishing	When finished with the injection process, re-inject each installed packer with a small amount of wate This will react with the resin left behind in the drill hole. After the injection, the packers or injection port can be cut flush with the concrete surface or can be removed from the injection holes. Let SikaFix HH cure completely before removing the packers. Packer holes can be filled with Sikadur 31, SikaRepa Mortar, or SikaSet Plug and troweled smooth.		
Limitations	allowed to freeze, it Avoid splashing water Water used to activate Material must be store Material must be prec Ambient temperature Must be used in confin	will lower performance of the p into open containers, as mate e SikaFix HH+ must be in a ran ed between 40°F - 90°F (4°C - onditioned to between 60°F - 9 must be between 40°F - 90°F (ned spaces	rial is water activated ge of pH 3-10 for optimum foam quality 32°C) 0°F (16°C - 32°C) before use



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SikaFix[®] HH Hydrophilic

Low viscosity, expanding, polyurethane chemical grout

Description	SikaFix [®] HH Hydrophilic is a nonflammable hydrophilic polyurethane resin designed to form a flexible gasket or plug joints and cracks in concrete from water infiltration. In its uncured form, SikaFix [®] HH Hydrophilic is a pale yellow liquid. When it comes in contact with water, the grout expands quickly and cures to a tough, flexible, adhesive, closed cell foam that is essentially unaffected by mildly corrosive environments.	
Where to Use	 Sealing leaks through concrete cracks and joints. Saturating backer rod to seal joints by the gasket method. 	
Advantages	 Contains no volatile solvents. Non-flammable. Free Foam expands to 25 times its liquid volume. High elongation creates tight seal in moving cracks. 	
Packaging	5 gallon pail.	
Cure Mechanism	Water.	
Chemical Resistance	Unaffected by mildly corrosive environments.	

Typical Data

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life Storage Conditions	1 year in original, unopened container. Store in a dry area between 40°F-90°F containers. Low temperatures will affe store the product at room temperature f to use. Material must be preconditioner before use. If site temperatures are e water baths may be used on the pails the products temperature. Immerse of splashing water into open containers. If below 40°F (4°C).	(4°C-32°C) using original re-sealable ct viscosity. To minimize this effect, or a minimum period of 24 hours prior d to between 60°F-90°F (16°C-32°C) xtremely low, heat bands or heated a, before and during use to maintain nly the lower 2/3 of the pails. Avoid
Uncured		
Solids	100%	
Viscosity	650 cps @ 74°F (23°C)	ASTM D 1638
Color	Pale yellow	
Specific Gravity	1.16 @ 74°F (23°C)	
Flash Point	>200°F	
Corrosiveness	Non-corrosive	
Reaction initiation time		
1:1 with water	30 sec @ 77°F (25°C)	
Cured		
Density	4 lbs/ft ³	ASTM D 1622
Tensile Strength	170 psi	ASTM D 638
Elongation	400%	ASTM D 638
Shrinkage	<1%	
Values given are not to be us	sed in a specific preparation.	



How to Use	
Surface Preparation	When the crack is contaminated at the outside, it will be necessary to clean the crack surface so that the crack can be exactly located. If the crack is wide or high water flows are encountered, it will be necessary to seal the surface of the crack with a surface sealing material (SikaSet® Plug, Sikadur® 31 Hi Mod Gel, or open cell polyurethane foam saturated with SikaFix® HH Hydrophilic). The surface sealing can be done before or after drilling the injection holes, depending on the particular situation.
Mixing	Prior to installation the material should be agitated vigorously shaking the 5 gallon pail or by mixing with a jiffy mixer, bung mixer or by hand. During injection the grout will follow the path of least resistance. When the material has stopped migrating, it will continue to expand against the confines of the crack/joint and compress within itself, forming a very dense, closed cell material and stopping the leak.
Application	Begin by drilling 5/8" diameter holes along the side of the crack at a 45 degree angle. Drill the hole to intersect the crack midway through the substrate. Install injection packers in the holes and tighten. Spacing of the injection ports depends on crack width, but normal varies from 6" to 36". It is always necessary to flush the drilled holes with water to remove debris and drill dust from the holes and crack. This will also ensure that the crack is wet enough to react with the grout when it is introduced to the crack. Begin the injection of the grout as the lowest packer installed on a vertical crack, or at the first packer flushed for a horizontal crack. During the injection, you will notice that the SikaFix [®] HH Hydrophilic displaces water from the crack. Continue injecting until the grout appears at the adjacent packer hole. Stop pumping and reinstall the packer in the adjacent hole. Tighten the packer and move the pump hose to the second packer and begin injection. Continue the process until 3-4 packers have been grouted. Disconnect and go back to the first packer and inject all the ports for the second time if necessary. Some ports may take additional grout, which will fill up and further densify the material in the crack. Continue process until the length of the prepared crack is injected.
	Note: Injection pressure will vary from 200 psi to 2500 psi depending on the width of the crack, thickness of concrete and condition of concrete.
Tooling & Finishing	When finished with the injection process, re-inject each installed packer with a small amount of water. This will react with the resin left behind in the drill hole. After the injection, the packers or injection ports can be cut flush with the concrete surface or can be removed from the injection holes. Let SikaFix [®] HH Hydrophilic completely cure before removing the packers. Packer holes can be filled with Sikadur [®] 31 or SikaSet [®] Plug and troweled smooth.
Removal	Residual resin that has foamed from the crack can be removed with a scraper as long as it is not cured to a solid on the surface. If the material has cured, remove with a wire brush or hand held grinders. SikaFix [®] HH Hydrophilic will aggressively bond to concrete surfaces.
Limitations	 Low temperatures will significantly affect viscosity and reaction time. Avoid splashing water into open containers, as material is water activated. Water used to activate SikaFix[®] HH Hydrophilic must be in a range of pH 3-10 for optimum foam quality. Material must be stored between 40°F-90°F (4°C-32°C). Material must be preconditioned to between 60°F - 90°F (16°C - 32°C) before use. Ambient temperature must be between 40°F - 90°F (4°C - 32°C) for use. Use only in applications where exposure to moisture is constant.

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Sika and SikaFix are registered trademarks. Printed in Canada. Product Data Sheet Edition 7.13.2016 SikaFix[®] HH LV

SikaFix[®] HH LV

Low viscosity, expanding, polyurethane chemical grout

Description		phobic polyurethane that, when used alo r plug joints and cracks in concrete from	ne or with SikaFix [®] Accelerator, is designed water infiltration.
Where to Use	 Sealing leaks through concrete cracks and joints. Defective concrete (cracked and honeycombed). Limestone (tunnels, dams). Pipe intrusions. Wastewater tanks. Sewers, manholes, utility boxes, etc. 		
Advantages Packaging	Expands up to 30 timeLow viscosity permits i	nall amount of water is needed for reactions in volume depending upon the amount njection into narrow hair line cracks. eates tight seal in moving cracks. wet and dry surfaces. lvents. able water compliant	
	e gai piacae pail, i pint p		
Cure Mechanism	Temperature	Gel Time (Accelerator dosage %)	
	50°F (10°C)	3m 10s (2.5%) 12m 0s (0%)	
	68°F (20°C)	1m 50s (2.5%) 6m 15s (0%)	
	77°F (25°C)	1m 15s (2.5%) 5m 10s (0%)	
	86°F (30°C)	1m 05s (2.5%) 4m 0s (0%)	
		x [®] Accelerator dosage, corresponding with the nt ratio of SikaFix [®] HH LV to SikaFix [®] Accelerator,	1

Typical Data

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

and a 0% dosage, corresponding with no SikaFix[®] Accelerator added. SikaFix[®] Accelerator must be agitated by shaking the container prior to use.

Shelf Life Storage	1 year in original, unopened container. Store in a dry area between 40°F-90°F (4°C-32°C) using original re-sealable contain. Low temperatures will affect viscosity. To minimize this effect, store the product at ro temperature for a minimum period of 24 hours prior to use. Material must be precondition to between 60°F-90°F (16°C-32°C) before use. If site temperatures are extremely low, h bands or heated water baths may be used on the pails, before and during use to main the products temperature. Immerse only the lower 2/3 of the pails. Avoid splashing water open containers. Do not use if ambient temperature is below 40°F (4°C).	
<u>Uncured</u>		
Solids	100%	
Viscosity	500 cps @ 74°F	ASTM D1638
Color	Amber	
Specific Gravity	1.15 @ 74°F (23°C)	
Flashpoint	>200°F	ASTM D93
Corrosiveness	Non-corrosive	

	Appearance	Transparent liquid	
	Viscosity	25 cps @ 74°F (23°C)	ASTM D1638
	Specific Gravity	.95 @ 74°F (23°C)	
	Flashpoint	216°F	ASTM D3278-96
	Cured		
	Density	4 lbs/ft ³	ASTM D1622
	Tensile Strength	29 psi	ASTM D638
	Elongation	44%	ASTM D638
	Shear	17 psi	ASTM C273
	Absorption	<1%	ASTM D2842
	Shrinkage	<1%	
	Service Temp	180°F (82°C) maximum	
	Values given are not intende	d to be used in specific preparation	
How to Use			
Surface Preparati	can be exactly located. I the surface of the crack polyurethane foam satur	f the crack is wide or high water fle with a surface sealing material (Sik	essary to clean the crack surface so that the crac bws are encountered, it will be necessary to se aSet [®] Plug, Sikadur [®] 31 Hi Mod Gel, or open c rface sealing can be done before or after drillin
Mixing	a jiffy mixer, bung mixer vigorously as the conten should be used with one used with more than 5% to shrinkage. Pour the de	or by hand. Prior to using SikaF ts may settle during storage. For r pint container of SikaFix [®] Accelera SikaFix [®] Accelerator. Excess accele	rously shaking the 5-gallon pail or by mixing wi ix [®] Accelerator, the container should be shake formal use, each 5 gallon unit of SikaFix [®] HH L tor, a dosage of 2.5%. The grout should never be eration will cause vigorous expansion that is pror nto a clean pail. Measure the appropriate amou and mix adequately.
	injection ports depends of drilled holes with water to crack is wet enough to re as the lowest packer inst	on crack width, but normal varies f o remove debris and drill dust from eact with the grout when it is introd talled on a vertical crack, or at the	backers in the holes and tighten. Spacing of the rom 6" to 36". It is always necessary to flush the the holes and crack. This will also ensure that the uced to the crack. Begin the injection of the gro first packer flushed for a horizontal crack. During
	the grout appears at the Tighten the packer and n until 3-4 packers have b the second time if neces	adjacent packer hole. Stop pump nove the pump hose to the second een grouted. Disconnect and go h	ing and reinstall the packer in the adjacent hol packer and begin injection. Continue the proces ack to the first packer and inject all the ports f nal grout, which will fill up and further densify th
	the grout appears at the Tighten the packer and n until 3-4 packers have b the second time if neces material in the crack. Co	adjacent packer hole. Stop pump nove the pump hose to the second een grouted. Disconnect and go h sary. Some ports may take addition ntinue process until the length of th will vary from 200 psi to 2500 psi	ces water from the crack. Continue injecting un ing and reinstall the packer in the adjacent hol packer and begin injection. Continue the proces ack to the first packer and inject all the ports final grout, which will fill up and further densify the prepared crack is injected. depending on the width of the crack, thickness
Tooling & Finishi	the grout appears at the Tighten the packer and n until 3-4 packers have b the second time if neces material in the crack. Co Note: Injection pressure concrete and condition o ng When finished with the i will react with the resin le flush with the concrete s	adjacent packer hole. Stop pump nove the pump hose to the second een grouted. Disconnect and go h sary. Some ports may take additio ntinue process until the length of th will vary from 200 psi to 2500 psi f concrete. njection process, re-inject each ins ft behind in the drill hole. After the urface or can be removed from th	ing and reinstall the packer in the adjacent hol packer and begin injection. Continue the proces ack to the first packer and inject all the ports f nal grout, which will fill up and further densify th e prepared crack is injected.
Tooling & Finishin	the grout appears at the Tighten the packer and n until 3-4 packers have b the second time if neces material in the crack. Co Note: Injection pressure concrete and condition o ng When finished with the is will react with the resin le flush with the concrete s cure before removing the smooth. Residual resin that has fi	adjacent packer hole. Stop pump nove the pump hose to the second een grouted. Disconnect and go h sary. Some ports may take additio ntinue process until the length of th will vary from 200 psi to 2500 psi of f concrete. njection process, re-inject each ins ft behind in the drill hole. After the urface or can be removed from the packers. Packer holes can be fille pamed from the crack can be remove re material has cured, remove with	ing and reinstall the packer in the adjacent hol packer and begin injection. Continue the proces ack to the first packer and inject all the ports final grout, which will fill up and further densify the prepared crack is injected. depending on the width of the crack, thickness talled packer with a small amount of water. The injection, the packers or injection ports can be c e injection holes. Let SikaFix® HH LV complete

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C120

Product Data Sheet Edition 2.24.2015 Sika CarboDur

Sika CarboDur®

Carbon fiber laminate for structural strengthening

Description	strengthening of	concrete, timber	and masonry stru	ced polymer (CFRP) lamir ctures. Sika CarboDur is b ky resin as the adhesive.		
Vhere to Use	Load increase					
		/e loads in wareh				
		 Increased traffic volumes on bridges 				
	 Installation of Vibrating str 		ery in industrial bu	lildings		
	0	building utilizatio	n			
	Damage to str		11			
	•	struction materia	als			
	 Steel reinfor 	cement corrosion	n			
	 Vehicle imp 	act				
	■ Fire					
	-	improvements				
		 Decrease in deformation Stress reduction in steel reinforcement 				
	 Crack width 		noreement			
		Change in structural system Removal of walls or columns				
	 Removal of 	 Removal of slab sections for openings 				
		struction defect	ts			
		reinforcements				
	Insufficient:	structural depth				
Advantages	 Very high st 	rength				
Advantages	 Lightweight Typical Data 	- I	PON STATISTICAL VAR	IATIONS DEPENDING UPON MIXIN	G METHODS AND EQUIPMENT.	
Advantages	 Lightweight Typical Data RESULTS M 	I IAY DIFFER BASED UI		IATIONS DEPENDING UPON MIXIN DDS, ACTUAL SITE CONDITIONS A		
Advantages	 Lightweight Typical Data RESULTS M 	I IAY DIFFER BASED UI	ETHODS, TEST METHO		ND CURING CONDITIONS.	
Advantages	 Lightweight Typical Data RESULTS M TEMPERAT 	I IAY DIFFER BASED UI	етнорs, теsт метно Carbon fil	DDS, ACTUAL SITE CONDITIONS A	ND CURING CONDITIONS. an epoxy resin matrix.	
Advantages	 Lightweight Typical Data RESULTS M TEMPERATI Base 	I IAY DIFFER BASED UI	етнорs, теsт метно Carbon fil	DDS, ACTUAL SITE CONDITIONS AN DER reinforced polymer with a	ND CURING CONDITIONS. an epoxy resin matrix.	
Advantages	 Lightweight Typical Data RESULTS M TEMPERATI Base Shelf Life Color Tensile Streng 	I IAY DIFFER BASED UP URE, APPLICATION M	ETHODS, TEST METHO Carbon fit Unlimited Black	DDS, ACTUAL SITE CONDITIONS AN Der reinforced polymer with a (no exposure to direct sunlig	ND CURING CONDITIONS. an epoxy resin matrix.	
Advantages	 Lightweight Typical Data RESULTS M TEMPERATI Base Shelf Life Color Tensile Streng Mear 	IAY DIFFER BASED UP URE, APPLICATION M gth 1 Value	ETHODS, TEST METHO Carbon fit Unlimited Black 4.49 x 10 ⁵	bos, ACTUAL SITE CONDITIONS AN per reinforced polymer with a (no exposure to direct sunlig ⁵ psi (3,100 MPa)	ND CURING CONDITIONS. an epoxy resin matrix.	
Advantages	 Lightweight Typical Data RESULTS M TEMPERATI Base Shelf Life Color Tensile Streng Mear Desig 	IAY DIFFER BASED UP URE, APPLICATION M gth 1 Value gn Value	ETHODS, TEST METHO Carbon fit Unlimited Black 4.49 x 10 ⁵	DDS, ACTUAL SITE CONDITIONS AN Der reinforced polymer with a (no exposure to direct sunlig	ND CURING CONDITIONS. an epoxy resin matrix.	
Advantages	 Lightweight Typical Data RESULTS M TEMPERATI Base Shelf Life Color Tensile Streng Mear Desig Modulus of E 	ay DIFFER BASED UP URE, APPLICATION M gth 1 Value gn Value lasticity	ETHODS, TEST METHO Carbon fit Unlimited Black 4.49 x 10 ⁶ 4.06 x 10 ⁶	bos, actual site conditions an over reinforced polymer with a (no exposure to direct sunlig ⁵ psi (3,100 MPa) ⁵ psi (2,800 MPa)	ND CURING CONDITIONS. an epoxy resin matrix.	
Advantages	 Lightweight Typical Data RESULTS M TEMPERATI Base Shelf Life Color Tensile Streng Mean Desig Modulus of E Mean 	ay DIFFER BASED UP URE, APPLICATION M gth n Value gn Value lasticity n Value	ETHODS, TEST METHO Carbon fit Unlimited Black 4.49 x 10 ⁶ 4.06 x 10 ⁶ 23.9 x 10 ⁶	bos, actual site conditions an over reinforced polymer with a (no exposure to direct sunlig ⁵ psi (3,100 MPa) ⁵ psi (2,800 MPa) ⁵ psi (165,000 MPa)	ND CURING CONDITIONS. an epoxy resin matrix.	
Advantages	 Lightweight Typical Data RESULTS M TEMPERAT Base Shelf Life Color Tensile Streng Mean Desig Modulus of E Mean Desig 	ay DIFFER BASED UP URE, APPLICATION M TValue gn Value lasticity TValue gn Value	ETHODS, TEST METHO Carbon fit Unlimited Black 4.49 x 10 ⁶ 4.06 x 10 ⁶ 23.9 x 10 ⁶ 23.2 x 10 ⁶	bos, actual site conditions an over reinforced polymer with a (no exposure to direct sunlig ⁵ psi (3,100 MPa) ⁵ psi (2,800 MPa)	ND CURING CONDITIONS. an epoxy resin matrix.	
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Advantages	 Lightweight Typical Data RESULTS M TEMPERAT Base Shelf Life Color Tensile Streng Mear Desig Modulus of El Mear Desig Elongation at Design Strain Thickness Temperature Fiber Volumed Density 	gth 1 Value gn Value lasticity 1 Value gn Value Break Resistance tric Content	ETHODS, TEST METHO Carbon fit Unlimited Black 4.49 x 10 ⁴ 4.06 x 10 ⁴ 23.9 x 10 ⁶ 23.2 x 10 ⁶ 1.69% 0.85% 0.047 in. (>300°F (: >68%	bobs, ACTUAL SITE CONDITIONS AN per reinforced polymer with a (no exposure to direct sunlig ⁵ psi (3,100 MPa) ⁵ psi (2,800 MPa) ⁵ psi (165,000 MPa) ⁵ psi (160,000 MPa) (1.2 mm)	ND CURING CONDITIONS. an epoxy resin matrix.	
vdvantages	 Lightweight Typical Data RESULTS M TEMPERAT Base Shelf Life Color Tensile Streng Mear Desig Modulus of El Mear Design Strain Thickness Temperature Fiber Volume Density Physical Pro 	ay DIFFER BASED UP URE, APPLICATION M To Value gn Value lasticity to Value gn Value Break Resistance tric Content	ETHODS, TEST METHO Carbon fil Unlimited Black 4.49 x 10 ⁶ 4.06 x 10 ⁶ 23.9 x 10 ⁶ 23.9 x 10 ⁶ 23.2 x 10 ⁶ 1.69% 0.85% 0.047 in. (>300°F (>68% 0.058 lbs.	bos, actual site conditions an oper reinforced polymer with a (no exposure to direct sunlig ⁵ psi (3,100 MPa) ⁵ psi (2,800 MPa) ³ psi (165,000 MPa) ³ psi (160,000 MPa) (1.2 mm) >150°C) /in ³ (1.60 g/cm ³)	ND CURING CONDITIONS. an epoxy resin matrix. ght).	
dvantages	 Lightweight Typical Data RESULTS M TEMPERAT Base Shelf Life Color Tensile Streng Mear Desig Modulus of El Mear Desig Elongation at Design Strain Thickness Temperature Fiber Volumed Density 	ay DIFFER BASED UP URE, APPLICATION M Dalue gn Value lasticity n Value gn Value Break Resistance tric Content Dperties Thickness	ETHODS, TEST METHO Carbon fit Unlimited Black 4.49 x 10 ⁶ 4.06 x 10 ⁶ 23.9 x 10 ⁶ 23.9 x 10 ⁶ 23.2 x 10 ⁶ 1.69% 0.85% 0.047 in. (>300°F (>68% 0.058 lbs.	2005, ACTUAL SITE CONDITIONS AN 2007 per reinforced polymer with a 2017 (no exposure to direct sunlig 2018 per (3,100 MPa) 2019 per (2,800 MPa) 2019 per (165,000 MPa) 2019 per (160,000 MPa) 2019 (1.2 mm) 2019 2019 2019 2019 2019 2019 2019 2019	ND CURING CONDITIONS. an epoxy resin matrix.	
dvantages	 Lightweight Typical Data RESULTS M TEMPERAT Base Shelf Life Color Tensile Streng Mear Desig Modulus of El Mear Design Strain Thickness Temperature I Fiber Volumet Density Physical Pro Product 	ay DIFFER BASED UP URE, APPLICATION M Dalue gn Value lasticity n Value gn Value Break Resistance tric Content Dperties Thickness (mils)	ETHODS, TEST METHO Carbon fil Unlimited Black 4.49 x 10 ⁶ 4.06 x 10 ⁶ 23.9 x 10 ⁶ 23.9 x 10 ⁶ 23.2 x 10 ⁶ 1.69% 0.85% 0.047 in. (>300°F (: >68% 0.058 lbs. <i>Width</i> (inches)	2005, ACTUAL SITE CONDITIONS AN 2007 per reinforced polymer with a 2017 (no exposure to direct sunlig 2018 pisi (3,100 MPa) 2019 pisi (2,800 MPa) 2019 pisi (165,000 MPa) 2019 pisi (160,000 MPa) 2019 (1.2 mm) 2019 201	ND CURING CONDITIONS. an epoxy resin matrix. ght). Tensile Strength	
Advantages	 Lightweight Typical Data RESULTS M TEMPERAT Base Shelf Life Color Tensile Streng Mear Desig Modulus of El Mear Design Strain Thickness Temperature I Fiber Volumer Density Physical Pro Product 	ay DIFFER BASED UP URE, APPLICATION M The Value gn Value lasticity to Value gn Value Break Resistance tric Content Operties <i>Thickness</i> (<i>mils</i>) 47.2 (1.2 mm)	ETHODS, TEST METHO Carbon fil Unlimited Black 4.49 x 10 ⁶ 4.06 x 10 ⁶ 23.9 x 10 ⁶ 23.9 x 10 ⁶ 23.2 x 10 ⁶ 1.69% 0.85% 0.047 in. (>300°F (>68% 0.058 lbs. <i>Width</i> (inches) 1.97 (50 mm)	2005, ACTUAL SITE CONDITIONS AN 2007 per reinforced polymer with a 2017 (no exposure to direct sunlig 2018 per (2,800 MPa) 2019	ND CURING CONDITIONS. an epoxy resin matrix. ght). <i>Tensile Strength</i> 37.8 x 10 ³ lbs. (168 kN)	
Advantages	 Lightweight Typical Data RESULTS M TEMPERAT Base Shelf Life Color Tensile Streng Mear Desig Modulus of El Mear Design Strain Thickness Temperature I Fiber Volumet Density Physical Pro Product 	ay DIFFER BASED UP URE, APPLICATION M Dalue gn Value lasticity n Value gn Value Break Resistance tric Content Dperties Thickness (mils)	ETHODS, TEST METHO Carbon fil Unlimited Black 4.49 x 10 ⁶ 4.06 x 10 ⁶ 23.9 x 10 ⁶ 23.9 x 10 ⁶ 23.2 x 10 ⁶ 1.69% 0.85% 0.047 in. (>300°F (: >68% 0.058 lbs. <i>Width</i> (inches)	2005, ACTUAL SITE CONDITIONS AN 2007 per reinforced polymer with a 2017 (no exposure to direct sunlig 2018 pisi (3,100 MPa) 2019 pisi (2,800 MPa) 2019 pisi (165,000 MPa) 2019 pisi (160,000 MPa) 2019 (1.2 mm) 2019 201	ND CURING CONDITIONS. an epoxy resin matrix. ght). Tensile Strength	

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R

	 High modulus of Outstanding fation Alkali resistant 	tion of laminates all, especially overhead elasticity	5	
Coverage		adur 30 epoxy resin with llon. Type S 1012: approx		rox. 50 LF/gallon. Type S 812:
Packaging			.). Type S 512 width 50 mn idth 100 mm (approx. 4").	n (approx. 2"). Type S 812
How to Use				
Surface Preparation	dust, laitance, gre terials and other with an appropria sand). The adhe pull-off testing (A	ease, curing compounds, bond inhibiting materials te repair mortar (e.g. mix sive strength of the cond	impregnations, waxes, fore from the surface. Existing ed Sikadur 30 epoxy with the rete must be verified after	anding water and frost. Remove ign particles, disintegrated ma- uneven surfaces must be filled he addition of 1 part oven-dried surface preparation by random n tensile strength, 200 psi (1.4
	mm) but no great ground smooth a Preparation Wor provide an open i	er than 1/8" (3 mm) per fo nd flush.	oot. Any sharp edges (i.e. fi n, shotblast or use other ap	ft. shall be limited to 1/4" (6 ns, form-marks, etc.) must be proved mechanical means to
	Cutting the Carb		iealiei (e.y. MER).	
	Preferred: Carbo	oDur laminates should be		aring" force (e.g. guillotine or CarboDur laminate to avoid
	Alternate: A had be taken to support		e on both sides to avoid spli	d. However, extra care must intering. In addition, extra care
Mixing	Consult Sikadur 3	30 technical data sheet fo	r information on epoxy resi	n.
Application	of 1/16" (1.5 mm) spatula to a nom the temperature, press the laminat adhesive. Glue lii	Apply the neat mixed Sikadur 30 epoxy onto the concrete with a trowel or spatula to a nominal thickness of 1/16" (1.5 mm). Apply the mixed Sikadur 30 epoxy onto the CarboDur laminate with a "roof-shaped spatula to a nominal thickness of 1/16" (1.5 mm). Within the open time of the epoxy, depending on the temperature, place the CarboDur laminate onto the concrete surface. Using a hard rubber roller press the laminate into the epoxy resin until the adhesive is forced out on both sides. Remove excess adhesive. Glue line should not exceed 1/8 inch (3 mm). The external reinforcement must not be disturbed for a minimum of 24 hours. The epoxy will reach its design strength after 7 days.		
Limitations	 Design calc 	ulations must be made		endent licensed professional
INST SHE PAR TO F REN	TRUCTIONS ON THE P TET WHICH ARE AVAIL TIMENT AT 800.933.745 READ AND FOLLOW T T PRODUCT DATA SH	RODUCT'S MOST CURREN ABLE ONLINE AT HTTP://US 22 NOTHING CONTAINED IN J HE WARNINGS AND INSTRU EET, PRODUCT LABEL AND	F PRODUCT DATA SHEET, PRO A.SIKA.COM/ OR BY CALLING NYY SIKA MATERIALS RELIEVE CTIONS FOR EACH SIKA PRO SAFETY DATA SHEET PRIOR T	ND FOLLOW THE WARNINGS AND DUCT LABEL AND SAFETY DATA SIKA'S TECHNICAL SERVICE DE ES THE USER OF THE OBLIGATION DUCT AS SET FORTH IN THE CUR FO PRODUCT USE.
actual before Prior t	Safety Data Sheets contai e using the product. In cas to each use of any Sika prod	ning physical, ecological, toxicological en e of emergency, call CHEMTREC duct, the user must always read an	ogical and other safety related data. I at 1-800-424-9300, International 703- nd follow the warnings and instructio	ons on the product's most current Produc
ment a for ea produ	at 800-933-7452. Nothing co ch Sika product as set fort ct use.	ontained in any Sika materials reli h in the current Product Data She	eves the user of the obligation to rea bet, product label and Safety Data Sh	
the cu Buyer EXPRI SHALI THE U SALE	rrent Product Data Sheet if 's sole remedy shall be limi ESS OR IMPLIED SHALL A L NOT BE LIABLE UNDER A SE OF THIS PRODUCT IN A	used as directed within shelf life. ted to the purchase price or replace PPLY INCLUDING ANY WARRANT NY LEGAL THEORY FOR SPECIA MANNER TO INFRINGE ON ANY P.	User determines suitability of produ ement of product exclusive of labor 'Y OF MERCHANTABILITY OR FITNE L OR CONSEQUENTIAL DAMAGES. ATENT OR ANY OTHER INTELLECTU/	s and to meet the technical properties or ct for intended use and assumes all risks or cost of labor. NO OTHER WARRANTIES :SS FOR A PARTICULAR PURPOSE. SIKA SIKA SHALL NOT BE RESPONSIBLE FOR AL PROPERTY RIGHTS HELD BY OTHERS BLE AT HTTP://USA.SIKA.COM/ OR BY
R Visit	our website at usa.sika.c			00-933-SIKA NATIONWIDE
	Sika Corporation and Sale Sika Corporation (01 Polito Avenue yndhurst, NJ 07071 Phone: 800-933-7452 Fax: 201-933-6225	Scenters. For the location of y Sika Canada Inc. 601 Delmar Avenue Pointe Claire Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792	our nearest Sika sales office, contact Sika Mexicana S.A. de C.V. Carretera Libre Celaya Km. 8.5 Fracc. Industrial Balvanera Corregidora, Queretaro C.P. 76920 Phone: 52 442 2385800	ABSIN O

Construction

Sika Mexicana S.A. de C.V. Carretera Libre Celaya Km. 8.5 Fracc. Industrial Balvanera Corregidora, Queretaro C.P. 76920 Phone: 52 442 2385800 Fax: 52 442 2250537



Sika, SikaRepair, and SikaLatex are registered trademarks. Printed in Canada. C130 Product Data Sheet Edition 2.24.2015 Sika CarboDur Rods

Sika CarboDur[®] Rods Carbon fiber rods for structural strengthening

Description	Sika CarboDur Rods are pultruded carbon fiber reinforced polymer (CFRP) rods designed for strengthening concrete, timber and masonry structures. The rods are primarily installed using the Near Surface Mounted (NSM) technique by inserting into grooves cut into the substrate and bonded with an epoxy resin. The rods can also be used for anchoring SikaWrap fabrics for positive attachment to concrete or masonry.
Where to Use	 Negative moment reinforcing in slabs and decks Anchoring of SikaWrap fabrics Strengthening of masonry walls Doweling applications Cathodic protection applications Load increases Increased live loads in warehouses Increased loading in parking decks Installation of heavy machinery Vibrating structures Changes of building utilization Damage to structural parts Aging of construction materials Steel reinforcement corrosion Vehicle impact Fire Serviceability improvements Decrease in deformation Stress reduction in steel reinforcement Crack width reduction Change in structural system Removal of slab sections for openings Design or construction defects Insufficient reinforcements. Insufficient structural depth.
Advantages	 Very high strength Lightweight Non-corrosive Very easy to handle High modulus of elasticity Can accept traffic on surface (rods are countersunk)
	Typical Data
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.
	BaseCarbon fiber reinforced polymer with an epoxy resin matrix. Unlimited (no exposure to direct sunlight).Shelf Life ColorUnlimited (no exposure to direct sunlight).ColorBlackTensile Strength Tensile Modulus of Elasticity
	Diameter Cross Sectional Area Tensile Strength
	1/4 in. 0.05 sq. in. 12,500 lbs.
	3/8 in. 0.11 sq. in. 27,500 lbs.
ka®	PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE- PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR- RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

	 High bond strength due to full encapsulation Rods are not visible once installed Outstanding fatigue resistance Allegiant due to full encapsulation
Coverage	 Alkali resistant Coverage of Sikadur 30 or Sikadur 32, Hi-Mod epoxy resin with Sika CarboDur Rods: 1/4 in. diameter approx. 85 LF/gal. (1/2 x 1/2 in. slots); 3/8 in. diameter: approx. 60 LF/gal. (5/8 x 5/8 in. slots)
Packaging	Custom cut lengths available.
How to Use Surface Preparation	For Near Surface Mounted Applications, cut a groove into the concrete or masonry surface using ar appropriate concrete saw or diamond blade. Surface must be clean and sound. It may be dry or damp but free of standing water and frost. Remove dust, laitance, grease, curing compounds, impregnations waxes, foreign particles, disintegrated materials and other bond inhibiting materials from the surface In addition, clean the groove with compressed air prior to installation.
	Preparation Work Concrete - Blast clean, shotblast or use other approved mechanical means to provide an open roughened texture. CarboDur Rods - wipe clean with appropriate cleaner (e.g. MEK).
Cutting the Rods	Rods may be cut to an appropriate length with a diamond blade on a chop saw or grinder. The rods should be wrapped with duct tape in the cutting zone to minimize splintering.
Mixing	Consult Sikadur 30 or Sikadur 32, Hi-Mod technical data sheet for information on epoxy resin.
Application	Near Surface Mounted Application
	be taken not to cut through existing reinforcing steel, steel tendons, embedded ducts, or other materials within the substrate. After preparing and cleaning the surface (see above), apply the mixed Sikadur 30, Sikadur 32, Hi-Mod or Sikadur AnchorFix into the grooves approximately half-full. Sikadur 30 has a paste consistency and may be use for vertical and overhead applications. Sikadur 32, Hi-Mod has a honey-type consistency and may be use for horizontal applications. Sikadur AnchorFix is packaged in cartridges and can be injected directly into the grooves for horizontal, vertical, or overhead applications. Within the open time of the epoxy, depending on the temperature, press the CarboDur Rods into the epoxy in the grooves. Apply additional epoxy over the rods to fill in the grooves. Strike the surface with a trowel to force out any air and provide a clean installation. Anchoring SikaWrap Fabrics To provide additional anchorage for SikaWrap Fabrics in shear or flexural strengthening applica- tions, the fabric may be positively attached into grooves in the concrete at the ends. Cut grooves into the concrete as described above. Fill the grooves with either Sikadur 30, Sikadur 32 or Sikadur AnchorFix, depending on the orientation. Place the saturated fabric over the grooves, and press the CarboDur Rods into the grooves for positive attachment. Fill in any voids on the surface with additional epoxy, forcing out any air voids that might be present.
Limitations	Design calculations must be made and certified by an independent licensed professional engineer.
INST SHE PAR TO I REN KEEP C For fu actual before Prior t Data 3 ment	OR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND TRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA EET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE RTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR IT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE. CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY infher information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet e using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887. to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Produc Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instructior ch Sika product as forth in the current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instructior ch Sika product as forth in the current Product Data Sheet, product label and Safety Data Sheet prior to
produ SIKA v the cu Buyer EXPR SHAL THE U SALE CALL	warrants this product as set form in the current Product Data Sheet, product raber and Safety Data Sheet prior to warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties or irrent Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks 's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES ESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA LNOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOT ISE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY ING 201-333-8800. our website at usa.sika.com 1-800-933-SIKA NATIONWIDE
	Sika Corporation Sika Canada Inc. 001 Polito Avenue Sika Canada Inc. 001 Polito Avenue 601 Delmar Avenue Prone: 800-933-7452 Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792 Fax: 514-694-2792 Phone: 52 442 2385800 Fax: 52 442 2250537 Sika Repair, and SikaLatex are registered trademarks. Printed in Canada.

Sika, SikaRepair, and SikaLatex are registered trademarks. Printed in Canada. C140 Product Data Sheet Edition 9.23.2014 Sikadur® 30

Sikadur[®] 30

High-modulus, high-strength, structural epoxy paste adhesive for use with Sika[®] CarboDur[®] reinforcement.

Description	•	nent, 100% solids, moisture-tolerant, high-mod onforms to the current ASTM C-881 Type I, IV G	
Where to use	 Adhesive for bonding external reinforcement to concrete, masonry, steel, wood, stone, etc. Structural bonding of composite laminates (Sika® CarboDur® CFRP) to concrete. Structural bonding of steel plates to concrete. Suitable for use in vertical and overhead configurations. As a binder for epoxy mortar repairs. 		
Advantages	 Long pot life. Long open time. Tolerant of moisture before, during and after cure. High strength, high modulus, structural paste adhesive. Excellent adhesion to concrete, masonry, metals, wood and most structural materials. Fully compatible and excellent adhesion to Sika® CarboDur® CFRP composite laminate. Paste consistency ideal for vertical and overhead applications of Sika® CarboDur®. High abrasion and shock resistance. Convenient easy mix ratio A:B=3:1 by volume. Solvent-free. Color-coded components to ensure proper mixing control. 		
Coverage	Type S 512 CarboDur®: a Type S 1012 CarboDur®:	oprox. 50 LF/gal.; Type S 812 CarboDur: approx approx. 22 LF/gal.	:. 32 LF/gal.;
Packaging	1 gal. units.		
	RESULTS MAY DIFFER BASED UPON ST	Curing conditions @ 73°F {23°C} and ATISTICAL VARIATIONS DEPENDING UPON MIXING ME S, TEST METHODS, ACTUAL SITE CONDITIONS AND CU 2 years in original, unopened containers.	THODS AND EQUIPMENT,
	Storage Conditions		
	Color	Light gray	
	Mixing Ratio	Component 'A': Component 'B' = 3:1 by volu	ume.
	Consistency	Non-sag paste.	
	Pot Life Approximately 70 minutes @ 73°F (23°C) (1 qt.)		
	Tensile Properties (ASTM D-63	·	
	7 day Tensile Strength Elongation at Bro Modulus of Elast		
	Flexural Properties (ASTM D-7	90)	
		n (Modulus of Rupture)6,800 psi (46.8 Ms of Elasticity in Bending1.7 X 106 psi (11.7)	,
	Shear Strength (ASTM D-732)		24.8 MPa)
	Bond Strength (ASTM C-882):	Hardened Concrete to Hardened Concrete	
	2 day (dry cure) Bond 14 day (moist cure) Bond	d Strength 3,20 d Strength 3,10 Hardened Concrete to Steel 2,60	0 psi (18.6 MPa) 0 psi (22.0 MPa) 0 psi (21.3 MPa) 0 psi (17.9 MPa)
	2 day (dry cure) Bond 14 day (moist cure) Bond	d Strength 2,60 d Strength	0 psi (20.6 MPa) 0 psi (17.9 MPa)
	Heat Deflection Temperature (A		(1700)
		ing=264 psi (1.8 MPa)] 118°F	
	Water Absorption (ASTM D-57)	0) 7 day (24 hour immersion) 0.03%	

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Comp	ressive Properties (essive Strength, psi (M	
	4	40°F* (4°C)	73°F* (23°C)	90°F* (32°C)
	4 hour	-	-	5,500 (37.9)
	8 hour 16 hour	-	3,500 (24.1)	6,700 (46.2)
	1 day	- 750 (5.1)	6,700 (46.2) 7,800 (53.7)	7,400 (51.0) 7,800 (53.7)
	3 day	6,800 (46.8)	8,300 (57.2)	8,300 (57.2)
	7 day	8,000 (55.1)	8,600 (59.3)	8,600 (59.3)
	14 day	8,500 (58.6)	8,600 (59.3)	8,900 (61.3)
	28 day	8,500 (58.6)	8,600 (59.3)	9,000 (62.0)
Comp	ressive Modulus	``	osi (2,689 MPa)	9,000 (02.0)
	I cured and tested at the ten	•	usi (2,009 MFa)	
Watchar				
How to Use Surface Preparation	ICRI surface-profile of in. (1 mm). Surface re Remove dust, laitand materials, and other an appropriate repair strength of the concur- by ACI 503R, ASTM with concrete substru-	chips. Localized out-of-pl nust be clean and sound ce, grease, curing compo bond inhibiting materials f r mortar (e.g., Sikadur [®] 3 rete must be verified afte C1583) at the discretion of ate failure.	ane variations, including for It may be dry or damp, bu unds, impregnations, wax rom the surface. Existing u 0 with the addition of 1 par r surface preparation by ro of the engineer. Minimum to	ace profile (CSP) 3 defined by th orm lines, should not exceed 1/3 it free of standing water and fros es, foreign particles, disintegrate ineven surfaces must be filled wit t oven-dried sand). The adhesiv andom pull-off testing (as define ensile strength, 200 psi (1.4 MPa ans to provide an open roughene
	Steel - Should be cle	eaned and prepared thore lean with appropriate clea	bughly by blast cleaning to aner (e.g. MEK).	a white metal finish.
Mixing	clean pail or approp	iately sized mixing conta	iner. Mix thoroughly for 3	Component 'A' by volume into minutes with Sika paddle on low nich can be used within its pot life
		ty mortar: slowly add up adur [®] 30 and mix until ur	. ,	e of an oven-dried aggregate to
	laminate with a "root the epoxy, depending a hard rubber roller, Remove excess adh not be disturbed for	-shaped" spatula to a no g on the temperature, pla press the laminate into th esive. Glue line should n a minimum of 24 hours. T	minal thickness of 1/16" (ce the CarboDur® laminate e epoxy resin until the adh of exceed 1/8 inch (3 mm) he epoxy will reach its de	Sikadur [®] 30 onto the CarboDur 1.5 mm). Within the open time of e onto the concrete surface. Usin hesive is forced out on both sides . The external reinforcement mus sign strength after 7 days. the prepared substrate, filling th
	cavity. Strike off leve	I. Lifts should not exceed	1 inch (25 mm).	the prepared substrate, filling th
Limitations	 Do not thin. Add Use oven-dried Maximum glue I Maximum epoxy Minimum age of Porous substrate 	ine of neat epoxy is 1/8 ir mortar thickness is 1 ind concrete must be 21-28 es must be tested for mo	ent proper cure. nch (3 mm). ch (25 mm) per lift. days, depending upon cu	ring and drying conditions. prior to mortar applications. ng and/or UV exposure.
INSTRUCTIONS SHEET WHICH PARTMENT AT TO READ AND	S ON THE PRODUCT ARE AVAILABLE ONI 800.933.7452 NOTHIN FOLLOW THE WARNI	S MOST CURRENT PRO LINE AT HTTP://USA.SIK/ G CONTAINED IN ANY SI NGS AND INSTRUCTION	DUCT DATA SHEET, PROI A.COM/ OR BY CALLING S KA MATERIALS RELIEVES	D FOLLOW THE WARNINGS AND DUCT LABEL AND SAFETY DAT SIKA'S TECHNICAL SERVICE DE THE USER OF THE OBLIGATION JCT AS SET FORTH IN THE CUR
KEEP CONTAINER TIGH For further informa actual Safety Data :	HTLY CLOSED. KEEP OUT OF RI ation and advice regardin Sheets containing physic:	EACH OF CHILDREN. NOT FOR INTE g transportation, handling, s al, ecological, toxicological ar	RNAL CONSUMPTION. FOR INDUSTR	IAL USE ONLY. FOR PROFESSIONAL USE ONL cal products, users should refer to th ad the current actual Safety Data Shee
Prior to each use of Data Sheet, produc ment at 800-933-74	f any Sika product, the use ct label and Safety Data Sh 52. Nothing contained in a	er must always read and follow neet which are available onlin ny Sika materials relieves the	v the warnings and instructions a at http://usa.sika.com/ or by o	s on the product's most current Produc calling Sika's Technical Service Depar and follow the warnings and instructio
the current Product Buyer's sole remed EXPRESS OR IMPL SHALL NOT BE LIA THE USE OF THIS P	t Data Sheet if used as dire dy shall be limited to the pu LIED SHALL APPLY INCLU ABLE UNDER ANY LEGAL PRODUCT IN A MANNER TC RODUCTS ARE SUBJEC	ected within shelf life. User de rchase price or replacement o DING ANY WARRANTY OF M IHEORY FOR SPECIAL OR CO NFRINGE ON ANY PATENT C	termines suitability of product of product exclusive of labor or ERCHANTABILITY OR FITNES NNSEQUENTIAL DAMAGES. SI NRANY OTHER INTELLECTUAL	and to meet the technical properties o for intended use and assumes all risks cost of labor. NO OTHER WARRANTIE S FOR A PARTICULAR PURPOSE. SIK KA SHALL NOT BE RESPONSIBLE FO PROPERTY RIGHTS HELD BY OTHERS .E AT HTTP://USA.SIKA.COM/ OR B
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Product Data Sheet Edition 4.26.2016 Sikadur[®] 300

Sikadur[®] 300

High-modulus, high-strength, impregnating resin

Where to Use		nating resin with SikaWrap [®] Structural Strengthening System.
	applications.	as a seal coat and impregnating resin for horizontal and vertical
Advantages	 Long pot life. Long open time. Easy to mix. Tolerant of moisture before, during and after cure. High strength, high modulus adhesive. Excellent adhesion to concrete, masonry metals, wood and most structural materials. Fully compatible and developed specifically for the SikaWrap® System. High temperature resistance. High abrasion and shock resistance. Solvent-free, VOC compliant. 	
Coverage	As a sealer: 100 ft. ² /gal.	
	As an impregnating resin:	120 ft²/gal 9 oz. per sq.yd. fabrics 60 ft²/gal 18 oz. per sq.yd. fabrics 30 ft²/gal 37 oz. per sq.yd. fabrics
Packaging	4 gallon units.	
	TEMPERATURE, APPLICATION Shelf Life	UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. 2 years in original, unopened container. Store dry at 40° 05°E (4° 35°C). Condition material to
	Storage Conditions	Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F (18°-24°C) before using.
	Color	Clear, amber.
	Mixing Ratio	Mix entire unit, do not batch.
	Viscosity (mixed)	approx. 500 cps
	Reactivity Tack Free	6-7 hours (time to reach 10,000 cps) 14-16 hours
	(30 mils) ByK Drying Service Temperature	
		erties (14 day cure @73°F (23°C) and 50% R.H.)
	Tensile Strength (AST	
	Tensile Modulus (AS	
	Elongation @ Break (
	Flexural Strength (AS	STM D-790) 11,500 psi (79 MPa)

How to Use	
Surface Preparation	The concrete surface should be prepared to a minimum concrete surface profile (CSP) 3 as defined by the ICRI-surface-profile chips. Localized out-of-plane variations, including form lines, should not exceed 1/32 in. (1 mm). Substrate must be clean, sound, and free of surface moisture. Remove dust, laitance, grease, oils, curing compounds, waxes, impregnations foreign particles, coatings and disintegrated materials by mechanical means (i.e., sandblast-ing). For best results, substrate should be dry. However, a saturated surface dry condition is acceptable.
Mixing	Pre-mix each component. Mix entire unit, do not batch. Pour contents of part B to part A. Mix thoroughly for 5 minutes on low using a paddle style mixer on low speed (400-600 rpm) dril until uniformly blended.
Application	As a sealer: Apply mixed Sikadur [®] 300 epoxy to a properly prepared substrate using a brush roller or airless sprayer. Sikadur [®] 300 should be applied at a sufficient rate to fully saturate the substrate without producing a surface film. Coverage rates are based on a substrate with normal porosity.
	As an impregnating resin: As an impregnating resin for vertical and horizontal applications use Sikadur [®] 300. Resins may be applied to fabric by either manual or automatic means. For further information, consult installation guidelines.
Limitations	 Minimum substrate and ambient temperature 50°F (10°C). Do not thin with solvents. Material is a vapor barrier after cure. Minimum age of concrete must be 21-28 days depending on curing and drying conditions Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure

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Description

Where to Use

Advantages

Coverage Packaging

Sikadur[®] 301 High-modulus, high-strength, impregnating resin

structural epoxy adhesive.	ent 100% solids, moist	ure-tolerant, nigh strength, nigh modulus
For use as a priming sealer and/o ing System fabrics.	r an encapsulating resin	with the SikaWrap® Structural Strengthen-
 High strength, high modulus Excellent adhesion to concre Fully compatible and develop High temperature resistance High abrasion and shock res 	adhesive. ete, masonry, metals, wo bed specifically for the S istance.	
As a sealer: Approx. 75 ft²/gal. (1.8	4 m²/liter). As an impregr	nating resin: Approx. 50 ft²/gal. (1.23 m²/liter).
4 gallon unit (15.14 liters).		
RESULTS MAY DIFFER BASED UPON STA	ATISTICAL VARIATIONS DEPE S, TEST METHODS, ACTUAL S 2 years in original, unc Store dry at 40°-95°F (75°F (18°-24°C) before Light gray Component 'A' : Comp Appro Appro	ENDING UPON MIXING METHODS AND EQUIPMENT, SITE CONDITIONS AND CURING CONDITIONS. oppened container. (4°-35°C). Condition material to 65°- e using. oonent 'B' = 3 : 1 by volume ix. 2,700 cps ix. 40 minutes (1 gallon volume) ix. 90 minutes
Heat Deflection Temperature (A	STM D-648) 7 day	117°F (47°C)
Mechanical Properties	3) Tensile Strength Modulus of Elasticity	120°F (49°C) 8,000 psi (52.0 MPa) 290 ksi (2,000 MPa) 3.5%
7 day	00) Flexural Strength Tangent Modulus Strain at Yield	5.5% 13,000 psi (90.0 MPa) 500 ksi (3,448 MPa) 3.0%
Compressive Properties (ASTM	Compressive Strength1 day4,0003 day11,9007 day13,900Compressive Modulus	psi (27.6 MPa) 0 psi (82.1 MPa) 0 psi (96.0 MPa)
	structural epoxy adhesive. For use as a priming sealer and/o ing System fabrics. Medium pot life. Easy to mix. Tolerant of moisture before, , High strength, high modulus Excellent adhesion to concre Fully compatible and develop High temperature resistance High abrasion and shock res Solvent-free, VOC compliant As a sealer: Approx. 75 ft²/gal. (1.8 4 gallon unit (15.14 liters). Typical Data (Material and c RESULTS MAY DIFFER BASED UPON ST/ TEMPERATURE, APPLICATION METHODS Shelf Life Storage Conditions Color Mixing Ratio Viscosity (mixed) Pot Life Contact Time Heat Deflection Temperature (A Glass Transition Temperature (A Glass Transition Temperature (A Glass Transition Temperature (A Sterile Properties (ASTM D-638 7 day	structural epoxy adhesive. For use as a priming sealer and/or an encapsulating resiring System fabrics. Medium pot life. Easy to mix. Tolerant of moisture before, during and after cure. High strength, high modulus adhesive. Excellent adhesion to concrete, masonry, metals, with Fully compatible and developed specifically for the Second the strength and shock resistance. High temperature resistance. High temperature resistance. Solvent-free, VOC compliant. As a sealer: Approx. 75 ft²/gal. (1.84 m²/liter). As an impregreating a gallon unit (15.14 liters). Typical Data (Material and curing conditions @ Results MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPE TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL. Shelf Life 2 years in original, und Storage Conditions Store dry at 40°-95°F (75°F (18°-24°C) before Color Light gray Mixing Ratio Component 'A': Comp Viscosity (mixed) Appro Pot Life Appro Contact Time Appro Heat Deflection Temperature (ASTM D-648) 7 day Glass Transition Temperature (Tg) 7 day Mechanical Properties Tensile Properties (ASTM D-638) 7 day Flexural Strength Tangent Modulus Strain at Yield Compressive Properties (ASTM D-695) Compressive Strength Tangent Modulus Strain at Yield Compressive Strength 1 day 4,000 3 day 11,900 7 day 13,900 Compressive Modulus

Sikadur® 301 is a two-component 100% solids, moisture-tolerant, high strength, high modulus



How to Use Surface Prepara	tion The concrete surface should be prepared to a minimum concrete surface profile (CSP) 3 as define by the ICRI-surface-profile chips. Localized out-of-plane variations, including form lines, should exceed 1/32 in. (1 mm).
	Substrate must be clean, sound, and free of surface moisture. Remove dust, laitance, grease, or curing compounds, waxes, impregnations, foreign particles, coatings and disintegrated mater by mechanical means (i.e. sandblasting). For best results, substrate should be dry. Howeve saturated surface dry condition is acceptable.
Mixing	Pre-mix 'A' component, ('B' component does not require mixing). Mix entire unit, do not batch. P contents of Part 'B' into Part 'A'. Mix thoroughly for 5 minutes using a paddle style mixer on speed (400-600 rpm) rotary drill until uniformly blended.
Application	As a sealer: Apply mixed Sikadur [®] 301 epoxy to a properly prepared substrate using a brush roller. Sikadur [®] 301 should be supplied at a sufficient rate to fully saturate the substrate. Covera rates are based on a substrate with normal porosity.
	As an impregnating resin: Saturate SikaWrap [®] fabrics until fibers are completely wet-out. vertical and overhead installations, Sikadur [®] 330 may be used first to prime/tack the substrate p to installing the fabric.
	Sikadur [®] 301 can be applied in either Dry Lay-Up or Wet Lay-Up fabric installation procedur Consult the SikaWrap fabric technical data sheet for more information. If used as an impregnal resin in the Wet Lay-Up procedure, Sikadur [®] 301 should be manually applied onto both sides the fabric using a brush or roller. After saturating, excess resin should be removed from the wet- fabric using a squeegee.
	Due to the mixed viscosity of Sikadur [®] 301, an automated fabric-saturating device sho not be used. If automated fabric-saturating device is intended for use, consult the techni data sheets for appropriate impregnating resins (i.e. Sikadur [®] 300 or Sikadur [®] Hex 300).
Limitations	 Minimum substrate and ambient temperature 40°F (4°C). Maximum substrate and ambient temperature 95°F (35°C). Do not thin with solvents. Material is a vapor barrier after cure. Minimum age of concrete must be 21-28 days depending on curing and drying conditions. At low temperatures and/or high relative humidity, a slight oily residue (blush) may form on surface of the cured Sikadur[®] 301 epoxy. If an additional layer of fabric or a coating is to be apply onto the cured epoxy, this residue must first be removed to ensure adequate bond. The residue are not be removed with either a solvent wipe or with water and detergent. In both cases, the surface should be wiped dry prior to application of the next layer of fabric or coating. Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure.
	PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS A INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY D. SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE
	PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA.COM/ OK BT CALLING SIKA'S TECHNICAL SERVICE PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATI TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CI RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.
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Sikadur[®] 330 US

High-modulus, high-strength, impregnating resin

Description	Sikadur [®] 330 is a two-component , solvent-free, moisture-tolerant, high strength, high modulus structural epoxy adhesive.
Where to Use	For use as an impregnating resin with the SikaWrap [®] Hex 106G, 113C, 117C, 230C and 430G Structural Strengthening Systems.
Advantages	 Long pot life. Long open time. Easy to mix. Tolerant of moisture before, during and after cure. High strength, high modulus adhesive. Excellent adhesion to concrete, masonry, metals, wood and most structural materials. Fully compatible and developed specifically for the SikaWrap® Systems. High temperature resistance. High abrasion and shock resistance. Solvent-free, VOC compliant.
Coverage	First coat: 40-50 ft. ² /gal.; Additional coats: 100 ft. ² /gal.; Final coat: 160 ft. ² /gal.
Packaging	3.2 gal. kit / (2) two 1.25 gal. Component "A" pails, (2) two 0.35 gal. Component "B" pails

Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.) Results MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT,

,	APPLICATION METHOD	S, TEST METHODS, ACTU	AL SITE CONDITIONS AND	CURING CONDITIONS.
Shelf Life		2 years in original	l, unopened contaii	ner.
Storage Co	nditions	,	5°F (4°-35°C). Cor	ndition material to
• •		65°-75°F (18°-24°	C) before using.	
Color		Light gray.		
Mixing Rati	0	Component 'A' : C	Component 'B' = 4 :	1 by weight
Consistenc	у	Non-sag paste.		
Pot Life		57 minutes (325 r	ml)	
Tack Free T	ïme	4-5 hours		
Heat Deflec	tion Temperatur	re (ASTM D-648)		
7 day [fi	ber stress loading	g=264 psi (1.8 MPa) 120°F (50°C)
Mechanic	al Properties	i		
Compressiv	ve Properties (A	STM D-695), psi (N	/IPa)	
	40°F (4°C)	60°F (16°C)	73°F (23°C)	90°F (32°C)
8 hour	-	-	-	8,000 (55.2)
1 day	-	8,100 (55.8)	10,700 (73.7)	10,600 (73.1)
3 day	8,100 (55.8)	11,200 (77.2)	11,100 (76.5)	11,000 (75.8)
7 day	11,200 (77.2)	11,600 (80.0)	11,200 (77.2)	11,800 (81.3)
14 day	12,500 (86.2)	12,400 (85.5)	11,800 (81.3)	11,900 (82.0)
Tensile Stre	enath (ASTM D-6	i (38) 7 (dav 4.900 psi (3)	3.8 MPa)

Tensile Strength (ASTM D-638)	7 day	4,900 psi (33.8 MPa)
Elongation @ Break (ASTM D-638)	7 day	1.2%
Flexural Strength (ASTM D-790)	7 day	8,800 psi (60.6 MPa)
Flexural Modulus (ASTM D-790)	7 day	5.06 x 10 ⁵ psi (3,489 MPa)



How to Use	
Surface Preparation	The concrete surface should be prepared to a minimum concrete surface profile (CSP-3) as defined by the ICRI-surface-profile chips. Localized out-of-plane variations, including form lines, should not exceed 1/32 in. (1 mm).
	Substrate must be clean, sound, and free of surface moisture. Remove dust, laitance, grease, oils, curing compounds, waxes, impregnations, foreign particles, coatings and disintegrated materials by mechanical means (i.e. sandblasting). For best results, substrate should be dry. However, a saturated surface dry condition is acceptable.
Mixing	Pre-mix each component. Mix entire unit, do not batch. Pour contents of part B to part A. Mix thor- oughly for 5 minutes with a 1/2 inch "Jiffy" mixer mounted on a rotary drill and set at a slow speed (400-600 rpm) until uniformly blended. Mix only that quantity that can be used within its pot life.
Application	Dry Lay-Up: When installing a SikaWrap® Hex fabric in the dry lay-up process apply the mixed Sika- dur® 330 epoxy resin directly onto the substrate at a rate of 40-50 ft.²/gal. (0.95-1.18 m²/L). Coverage rate will depend on the actual surface profile. This equates to a thickness of approximately 32-40 mils. Carefully place the fabric into the applied resin with gloved hands and smooth out. Work out any irregularities or air pockets with a plastic laminating roller. Let the resin squeeze out between the rovings of the fabric. If more than one layer of fabric is required, apply additional Sikadur® 330 US at a rate of 100 ft.²/gal. (2.37 m²/L) and repeat as described above. This equates to a thickness of approximately 16 mils. Add a final layer of Sikadur® 330 US onto the exposed surface at a rate of 160 ft²/gal. (3.79 m²/L). This equates to a thickness of approximately 10 mils.
	Wet Lay-Up: When installing a SikaWrap® Hex fabric vertically or overhead in the wet lay-up process, mixed Sikadur® 330 can be applied to the substrate as a primer/tack coat to prevent the impregnated fabric from sliding down the concrete. Due to its mixed viscosity, do not use Sikadur® 330 US with an automatic fabric saturating device. Consult the SikaWrap® Hex fabric technical data sheet for information on saturating/impregnating fabric in a wet lay-up installation.
Limitations	 Minimum age of concrete is 21-28 days, depending on curing and drying conditions. All repairs required to achieve a level surface must be performed prior to application. Do not apply or cure Sikadur[®] 330 US in direct sunlight. Minimum substrate temperature 40°F (4°C). Maximum application temperature 95°C (35°C) Do not thin with solvents. Material is a vapor barrier after cure. Do not encapsulate saturated concrete in areas of freezing and thawing. Color of Sikadur 330 US may alter due to variations in lighting and/or UV exposure. Due to its mixed viscosity, do not use Sikadur 330 US with an automatic saturating device. Fabric must be saturated/impregnated manually when the wet lay-up process is used. At low temperatures and/or high relative humidity, a slight oily residue (blush) may form on the surface of the cured epoxy. If an additional layer of fabric, or a coating is to be applied onto the cured epoxy. This residue must first be removed to ensure adequate bond. The residue can be removed with either a solvent wipe (e.g. MEK) or with water and detergent. In both cases, the surface should be wiped dry prior to application of the next layer or coating. Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure.

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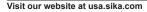
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Sikadur[®] 340 High-modulus, high-strength, primer for SikaWrap PreSaturated systems

Description	Sikadur 340 is a two-component 100% solids, moisture-tolerant, high strength, high modulus epoxy primer for use with SikaWrap PreSaturated systems
Where to Use	 For use as a seal coat and primer with SikaWrap PreSatruated Structural Strengthening Systems for vertical, horizontal and overhead applications.
Advantages	 Long pot life. Long open time. Easy to mix. Moisture tolerant High strength, high modulus adhesive. Excellent adhesion to concrete, masonry metals, wood and most structural materials. Thixotropic version ideal for overhead applications. High temperature resistance. High abrasion and shock resistance. Solvent-free, VOC compliant.
Coverage	As a primer: 140 ft²/gal. (~10 mils)
Packaging	1 gallon unit (1 pail of "A"; 2 cannisters of "B")

Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.)

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ETHODS, TEST METHODS	, ACTUAL SITE	CONDITIO	NS AND CU		
•		C). Co r	ndition r	naterial	to 65°-75°F
Clear, amber.					
Mix entire unit, do	not batch.				
300 - 550 cps					
90 minutes					
3 hours					
. (Tg)	208°F (98	3°C)/140	0°F (60°	C) post (cure
Range		-40° to	140°F (-	40 to 83	°C)
rties (Min. 7 day	cure @ 73°	°F (23°C	C) and 5	0% R.H.)
M D-638)		5,580 p	osi (38.5	MPa)	
M D-638)		2.7 x 1	0⁵ psi (1	,862 MP	a)
STM D-638)		1.5%			
	ETHODS, TEST METHODS 2 years in original Store dry at 40°-9 (18°-24°C) before Clear, amber. Mix entire unit, do 300 - 550 cps 90 minutes 3 hours . (Tg) Range rties (Min. 7 day M D-638) M D-638)	ethops, test Methops, Actual site 2 years in original, unopened Store dry at 40°-95°F (4°-35° (18°-24°C) before using. Clear, amber. Mix entire unit, do not batch. 300 - 550 cps 90 minutes 3 hours . (Tg) 208°F (98 Range tties (Min. 7 day cure @ 73° M D-638) M D-638)	ETHODS, TEST METHODS, ACTUAL SITE CONDITION 2 years in original, unopened contain Store dry at 40°-95°F (4°-35°C). Condition (18°-24°C) before using. Clear, amber. Mix entire unit, do not batch. 300 - 550 cps 90 minutes 3 hours . (Tg) 208°F (98°C)/140 Range -40° to rties (Min. 7 day cure @ 73°F (23°C) M D-638) 5,580 p M D-638) 2.7 x 1	ETHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CU 2 years in original, unopened container. Store dry at 40°-95°F (4°-35°C). Condition r (18°-24°C) before using. Clear, amber. Mix entire unit, do not batch. 300 - 550 cps 90 minutes 3 hours . (Tg) 208°F (98°C)/140°F (60°C) Range -40° to 140°F (- cties (Min. 7 day cure @ 73°F (23°C) and 50 M D-638) 5,580 psi (38.5 M D-638) 2.7 x 10 ⁵ psi (1.5)	Store dry at $40^{\circ}-95^{\circ}F$ ($4^{\circ}-35^{\circ}C$). Condition material (18°-24°C) before using. Clear, amber. Mix entire unit, do not batch. $300 - 550 \text{ cps}$ 90 minutes 3 hours . (Tg) $208^{\circ}F$ ($98^{\circ}C$)/140°F ($60^{\circ}C$) post of the term of the term of the term of the term of te



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How to Use	
Surface Preparation	The concrete surface should be prepared to a minimum concrete surface profile (CSP) 3 as defined by the ICRI-surface-profile chips. Localized out-of-plane variations, including form lines, should not exceed 1/32 in. (1 mm). Substrate must be clean, sound, and free of surface moisture. Remove dust, laitance, grease, oils, curing compounds, waxes, impregnations, foreign particles, coatings and disintegrated materials by mechanical means (i.e. sandblasting). For best results, substrate should be dry. However, a saturated surface dry condition is acceptable.
Mixing	Pre-mix "A" component. Mix entire unit, do not batch. Pour contents of both cannisters of part 'B' to part 'A'. Mix thoroughly for 3 minutes using a jiffy style mixer on low speed (400-600 rpm) drill until uniformly blended.
Application	Apply mixed Sikadur 340 epoxy to a properly prepared substrate using a brush, roller or airless sprayer. Sikadur 340 should be applied at a rate of approximately 10 mils. Coverage rates are based on a substrate with normal porosity.
Limitations	 Minimum substrate and ambient temperature 40°F (4°C). Do not thin with solvents. Material is a vapor barrier after cure. Minimum age of concrete must be 21-28 days depending on curing and drying conditions. Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure. DO NOT LEAVE MIXED EPOXY IN MASS; MATERIAL MAY GET HOT Moisture content of the substrate must be 4% or less when measured using Tramex.
Clean Up	Ventilate area. Confine spill. Collect with absorbent material. Dispose of in accordance with current, applicable local, state and federal regulations. Uncured material can be removed with approved solvent. Cured material can only be removed mechanically.

PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800-933-7452, NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTION FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY, FOR PROFESSIONAL USE ONLY.

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart-ment at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.



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Sikadur[®] Hex 300

High-modulus, high-strength, impregnating resin

Description	Sikadur [®] Hex 300 is a two-component 100% s modulus epoxies. Sikadur [®] Hex 300 is compliant ing Codes (IBC) and the 1997 Uniform Building ESR-3288.	t with the 2012 and 2009 International Build
Where to Use	 For use as an impregnating resin with the Sile Sikadur[®] Hex 300 is used as a seal coat and cal applications. 	
Advantages	 Long pot life. Long open time. Easy to mix. Tolerant of moisture before, during and after High strength, high modulus adhesive. Excellent adhesion to concrete, masonry met Fully compatible and developed specifically f High temperature resistance. High abrasion and shock resistance. Solvent-free, VOC compliant. 	tals, wood and most structural materials.
Coverage	As a sealer: 100 ft²/gal.	
	As an impregnating resin: 120 ft²/gal 9 oz. p	
	60 ft²/gal 18 oz. p	
	$30 \text{ ft}^2/\text{cal} = 37 \text{ cz}$ r	per sq.yd. fabrics
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Packaging	4 gallon units. Typical Data (<i>Material and curing conditi</i> RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACT	ons @ 73°F (23°C) and 50% R.H.) DEPENDING UPON MIXING METHODS AND EQUIPMENT, UAL SITE CONDITIONS AND CURING CONDITIONS.
Packaging	4 gallon units. Typical Data (Material and curing conditi RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACT Shelf Life 2 years in original, un Storage Conditions Store dry at 40°-95°F (18°-24°C) before usin Color Clear, slightly amber Mixing Ratio Mix entire unit, do not Viscosity ~500 - 750 cps Pot Life (1 quart volume mixed) ~3 - 4 hours	ons @ 73°F (23°C) and 50% R.H.) DEPENDING UPON MIXING METHODS AND EQUIPMENT, UAL SITE CONDITIONS AND CURING CONDITIONS. opened container (4°-35°C). Condition material to 65°-75°F ng
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PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

	Compressive	Properties (ASTM [) 695)		
	Compressive	Strength 40°F* (4°C)	60°F * (15.5°C)	73°F* (23°C)	90°F* (32°C)
	3 days 7 days 28 days	- 1,000 psi (7.1 MPa) -	- 8,500 psi (58.6 MPa) -	8,300 psi (57.2 MPa)	- 12,000 psi (82.7 MPa)
	Compressive Mo 7 days * Material cured and te	odulus 3.8 x 10 ⁵ psi (2,621 MPa sted at the temperatures indica	,		
	Typical Data	a (Material post cui	red min. 48 hours @) 140°F (60°C) an	d 50% R.H.)
	Elongation at Modulus of Ela	•	3) 4 3	0,200 psi (70.3 MF .8% .4 x 10⁵ psi (2,345 7 800 psi (123 MD	MPa)
		gth (Modulus of Rupture us of Elasticity in Ben		7,800 psi (123 MP x 10⁵ psi (4,138 N	,
How to Use Surface Prepar	defined by the lines, should no moisture. Remo particles, coatin	urface should be pre ICRI-surface-profile t exceed 1/32 in. (1 we dust, laitance, gre igs and disintegrated ostrate should be dry	chips. Localized ou mm). Substrate mus ase, oils, curing comp materials by mecha	ut-of-plane variatio t be clean, sound, pounds, waxes, imp anical means (i.e.	ins, including form and free of surface oregnations, foreign sandblasting). For
Mixing		omponent. Mix entir for 5 minutes using a ed.			
Application	brush, roller or	pply mixed Sikadur® airless sprayer. Sika bstrate without produ nal porosity.	dur [®] Hex 300 should	be applied at a su	ifficient rate to fully
	For vertical and rated fabric to p	nating resin: For ve l overhead application prevent it from sliding ans. For further infor	ons use Sikadur [®] 330 g off. Resins may be) US as tack coat/p applied to fabric b	primer for the satu-
Limitations	 Do not thin a Material is a Minimum age conditions. Not an aestlexposure. Mechanicall 	bstrate and ambient with solvents. a vapor barrier after of ge of concrete must b hetic product. Color y prepared, top side < 300. Vertical or ove US.	cure. be 21-28 days deper may alter due to vari , horizontal concrete	nding on curing an ations in lighting a surfaces can be p	nd/or UV primed with
	PRIOR TO EACH USE OF A INSTRUCTIONS ON THE PR SHEET WHICH ARE AVAILA PARTMENT AT 800.933.7452 TO READ AND FOLLOW THI RENT PRODUCT DATA SHEI	NY SIKA PRODUCT, THI ODUCT'S MOST CURRE BLE ONLINE AT HTTP:// NOTHING CONTAINED I E WARNINGS AND INSTI	ENT PRODUCT DATA SH USA.SIKA.COM/ OR BY N ANY SIKA MATERIALS RUCTIONS FOR EACH S	EET, PRODUCT LABE CALLING SIKA'S TEC RELIEVES THE USER IKA PRODUCT AS SE	EL AND SAFETY DATA HNICAL SERVICE DE- R OF THE OBLIGATION T FORTH IN THE CUR-
l	KEEP CONTAINER TIGHTLY CLOSED. KEE For further information and advice foctual Safety Data Sheets containi pefore using the product. In case	e regarding transportation, I ng physical, ecological, toxic	nandling, storage and dispo cological and other safety rel	sal of chemical products, ated data. Read the currer	users should refer to the
	Prior to each use of any Sika produ Data Sheet, product label and Safe nent at 800-933-7452. Nothing con or each Sika product as set forth product use.	ety Data Sheet which are avai tained in any Sika materials i	lable online at http://usa.sika relieves the user of the obliga	.com/ or by calling Sika's ition to read and follow the	Technical Service Depart-
	SIKA warrants this product for one he current Product Data Sheet if u Buyer's sole remedy shall be limite EXPRESS OR IMPLIED SHALL API SHALL NOT BE LIABLE UNDER AN THE USE OF THIS PRODUCT IN A M SALE OF SIKA PRODUCTS ARE SALE OF SIKA PRODUCTS ARE SALLING 201-933-8800.	sed as directed within shelf I d to the purchase price or rep PLY INCLUDING ANY WARRA IV LEGAL THEORY FOR SPE ANNER TO INFRINGE ON AN	ife. User determines suitabili placement of product exclusiv NTY OF MERCHANTABILIT CIAL OR CONSEQUENTIAL D Y PATENT OR ANY OTHER INT	ty of product for intended /e of labor or cost of labor. / OR FITNESS FOR A PAR AMAGES. SIKA SHALL NO 'ELLECTUAL PROPERTY F	use and assumes all risks. NO OTHER WARRANTIES TICULAR PURPOSE. SIKA DT BE RESPONSIBLE FOR RIGHTS HELD BY OTHERS.
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	\checkmark	ICC	ESR-3288	
	\checkmark	IBC	2012 Compliance	

SikaWrap[®] Hex 103C Carbon fiber fabric for structural strengthening

Description	SikaWrap [®] Hex 103C is a high strength, unidirectional carbon fiber fabric. Material is fiel laminated using Sikadur [®] 300/Hex 300 epoxy to form a carbon fiber reinforced polyme (CFRP) used to strengthen structural concrete elements.
Where to Use	Load Increases Increased live loads Increased traffic volumes on bridges Installation of heavy machinery in industrial buildings Vibrating structures Changes of building utilization Seismic Strengthening Column wrapping Masonry walls Damage to Structural Parts Aging of construction materials Vehicle impact Fire Blast resistance Change in Structural System Removal of walls or columns Removal of slab sections for openings
	 Design or Construction Defects Insufficient reinforcements Insufficient structural depth
Advantages	 Approved by ICC ESR-3288 Compliance with 2012 IBC Compliance with 2010 California Building Code Component of UL listed, fire-rated assembly Used for shear, confinement or flexural strengthening Flexible, can be wrapped around complex geometries High Strength Light Weight Non-corrosive Alkali Resistant Low aesthetic impact
Packaging	Rolls: 25 in. x 50 ft.; 25 in. x 300 ft.

Typical Data

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Storage Conditions Store drv at 40° - 95°F (4° - 35°C)

Storage Conditions	Store dry at 40° - 95°F (4° - 35°C)		
Shelf Life	10 years		
Color	Black		
Primary Fiber Direction	0° (unidirectional)		
Areal Weight	18 oz./sq.yd. (618 g/m^2)		



TYPICAL FIBER PROPERTIES				
Property Typical Test Value				
Tensile Strength	5.5 x 10^5 psi (3,793 MPa)			
Tensile Modulus	34 x 10^6 (234,500 MPa)			
Elongation	1.5%			
Density	0.065 lbs./in^3 (1.8 g/cc)			
Nominal Fiber Thickness	0.0135 in. (0.34 mm)			

	Avg. Ultimate Value		Design Value		
Property	US Units	SI Units	US Units	SI Units	ASTM Test Method
	psi	MPa	psi	MPa	
Tensile Strength	180,000	1,241	(f* _{fu}) 153,000*	1,055*	D3039/D7565
Tensile Modulus	-	-	(E _f) 9,400,000	64,828	D3039/D7565
Tensile % Elongation	1.6	1.6	(ε* _{fu}) 1.0*	1.0*	D3039/D7565
140°F - Tensile Strength	123,000	848	90,600*	625*	D3039
140°F - Tensile Modulus	-	-	9,156,500*	63,148*	D3039
140°F - % Elongation	1.13	1.13	0.89*	0.89*	D3039
Compressive Strength	113,000	779	99,200*	684*	D695
Compressive Modulus	9,726,000	67,076	8,532,800*	58,847*	D695
90 deg Tensile Strength	3,500	24	1,700*	12*	D3039
90 deg Tensile Modulus	705,500	4,866	512,300*	3,533*	D3039
90 deg % Tensile Elongation	0.45	0.45	0.27*	0.27*	D3039
Shear Strength +/- 45 in plane	7,500	52	6,300*	43*	D3518
Shear Modulus +/- 45 in plane	362,500	2,500	340,000*	2,345*	D3518
Nominal Ply Thickness (in./mm)	0.04	1.016	0.04	1.016	-
Tensile Strength per in. width	7.2 kips/in. width	-	6.1 kips/in. width*	-	-
Stiffness (E _f *A) per in. width	-	-	376 kips/in. width	-	-

How to Use

110W to 030	
Surface Preparation	 Surface must be clean and sound. It may be dry or damp, but free of standing water and frost. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles, disintegrated materials and other bond inhibiting materials from the surface. Consult the current product data sheets for Sikadur 330, Sikadur 300/Hex 300 or Sikadur 301 for additional information on surface preparation. Existing uneven surfaces must be filled with an a ppropriate repair mortar. The adhesive strength of the concrete must be verified after surface preparation by random pull-off testing (ASTM D-4541) at the discretion of the engineer. Minimum tensile strength, 200 psi (1.4 MPa) with concrete substrate failure. Preparation Work: Concrete - Blast clean, shotblast or use other approved mechanical means to provide a roughened, open-textured surface. Round all corners to 1/2" radius in certain "contact critical" applications and at the engineers discretion, a thorough cleaning of the substrate using low pressure sand or water blasting may be sufficient.
Mixing	Consult Sikadur 300/Hex 300, Sikadur 301 or Sikadur 330 product data sheets for information.



Application	Prior to placing the fabric, the concrete surface is primed and sealed using Sikadur [®] 301 Sikadur [®] 330 US and/or Sikadur 300/Hex 300 epoxy. For overhead or vertical applications prime concrete with Sikadur 330 US to improve tack. SikaWrap Hex 103C can be impregnated using either the Sikadur 301 or Sikadur 300/Hex 300. On larger projects the impregnation process for Sikadur [®] 300/Hex 300 may be accomplished using a mechanically driven fabric saturator similar device. The fabric may also be manually saturated by hand for Sikadur 300/Hex 300 using a roller prior to placement. In either case, installation of this system should be performed only by a specially trained contractor			
Tooling & Finishing	Fabric can be cut to appropriate lengths by using a commercial quality heavy duty sciss. Since the dull or worn cutting implements can damage, weaken or fray the fabric, their u should be avoided.			
Limitations	 Design calculations must be made and certified by an independent licensed professional engineer. System is a vapor barrier. Concrete should not be fully encapsulated in areas of freeze/ thaw. On projects governed by ICC regulations, use products listed on ESR-3288 Do not place carbon fiber in direct contact with steel. Must be isolated (e.g. glass fabric) to protect against corrosion. 			

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SikaWrap® Hex 103C HM

High modulus carbon fiber fabric for structural strengthening

Description		high modulus, unidirectional carbon fiber fabric. Material is ^a 300/Hex 300 epoxy to form a carbon fiber reinforced then structural elements.			
Where to Use	Load Increases				
	Increasing the live loads in warehouses				
	Increasing traffic volumes on	bridges			
	Installation of heavy machine	ry in industrial buildings			
	 Vibrating structures 				
	Changes of building utilization	1			
	Seismic Strengthening				
	Column wrapping				
	Masonry walls				
	Damage to Structural Parts				
	Aging of construction materia	ls			
	Vehicle impact				
	■ Fire				
	 Blast Resistance 				
	Change in Structural System				
	Removal of walls or columns				
	Removal of slab sections for openings				
	Design or Construction Defects				
	Insufficient reinforcement				
	Insufficient structural depths				
Advantages	Used for shear, confinement or flexural strengthening				
	Flexible, can be wrapped around complex shapes				
	High Strength				
	■ Light Weight				
	■ Non-corrosive				
	Alkali Resistant				
	Low Aesthetic Impact				
Packaging	Rolls: 20" x 150'				
How to Use					
Surface Preparation	Surface must be clean and sound. It may be dry or damp, but free of standing water and				
	frost. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign				
	Typical Data (Material and	suring conditions @ 73°E and 50% P H			
	Typical Data (Material and curing conditions @ 73°F and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIP-				
		METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDI-			
	Storage Conditions	Store dry at 40°-95°F (4°-35°C)			
	Shelf Life	10 years			
	Color	Black			
	Primary Fiber Direction	0° (unidirectional)			
	Area Weight	18 oz./sg.yd. (618 g/m^2)			



TYPICAL FIBER PROPERTIES				
Property Typical Test Value				
Tensile Strength	8.3 x 10^5 psi (5.723 MPa)			
Tensile Modulus	43 x 10^6 psi (296,475 MPa)			
Elongation	1.9%			
Density	0.065 lbs./in^3 (1.8 g/cc)			
Normal Fiber Thickness	0.0135 in (0.34 mm)			

Cured Laminate P					
	Avg. Ultimate Value		Design Value		
Property	US Units SI Units		US Units	SI Units	ASTM Test Method
	psi	MPa	psi	MPa	
Tensile Strength	161,450	1,134	(f*fu) 138,200*	953	D3039/D7565
Tensile Modulus	-	-	(Ef) 12,400,000	85,517	D3039/D7565
Tensile % Elongation	1.2	1.2	(e*fu) 0.90*	0.90*	D3039/D7565
Nominal Ply Thickness (in./mm)	0.04	1.016	0.04	1.016	-
Tensile Strength per in. width	6.5 kips/in. width	-	5.5 kips/in. width	-	-
Stiffness ($E_{f}^{*}A$) per in. width	-	-	496 kips/in. width	-	-

particles, disintegrated materials, and other bond inhibiting materials from the surface. Existing uneven surfaces must be filled with an appropriate repair mortar. The adhesive strength of the concrete must be verified after surface preparation by random pull-off testing (ACI 503R) at the discretion of the engineer. Minimum tensile strength, 200 psi with concrete substrate failure.

Concrete - Blast clean, shotblast or use other approved mechanical means to provide an open, roughened texture. In certain applications and at the engineer's discretion, the intimate contact between the substrate and the fabric may be determined to be non-critical. In these cases, a thorough cleaning of the substrate using low pressure sand or water blasting is sufficient.

MixingConsult Sikadur® 300/Hex 300/330 data sheet for information on epoxy resin.ApplicationPrior to placing the fabric, the concrete surface is primed and sealed using Sikadur®
300/Hex 300. Material may be applied by spray, brush or roller. SikaWrap® Hex 103C
HM can be impregnated using Sikadur® 300/Hex 300 epoxy. For best results on larger
projects, the impregnation process should be accomplished using a mechanically
driven saturator or similar device. In special cases where the size of the project does
not justify the use of a saturator, the fabric may saturate by hand using a ruller prior to
placement. In either case, installation of this system should be performed only by a
specially trained and ap-proved contractor.For overhead and vertical applications, prime concrete with Sikadur® 30 or Sikadur®
330 to improve tack. Saturate fabric with Sikadur® 300/Hex 300. Coat the exposed
surface of final fabric layer using Sikagard® 670W or Sikagard® 62.

 Tooling & Finishing
 Fabric can be cut to appropriate length by using a commercial quality, heavy duty scissor. Since dull or worn cutting implements can damage, weaken or fray the fiber their use should be avoided.

 Limitations
 DESIGN CALCULATIONS MUST BE MADE AND CERTIFIED BY AN INDEPEN

DESIGN CALCULATIONS MUST BE MADE AND CERTIFIED BY AN INDEPEN-DENT LICENSED PROFESSIONAL ENGINEER.

SYSTEM IS A VAPOR BARRIER. CONCRETE SHOULD NOT BE FULLY ENCAP-SULATED IN AREAS OF FREEZE/THAW.



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Product Data Sheet Edition 5.18.2016 SikaWrap® Hex 103C 2X

SikaWrap[®] Hex 103C-2X

High Strength, double thickness Carbon Fiber fabric for Structural Strengthening

	strengthen structural concret	e elements.				
Where to Use	Load Increases					
	Increased live loads	on bridges				
	 Increased traffic volumes of Installation of heavy mach 		uildinas			
	 Vibrating structures 		andingo			
	Changes of building utiliza	tion				
	Seismic Strengthening					
	 Column wrapping Masonry walls 					
	 Damage to Structural Part 	s				
	Aging of construction mate					
	Vehicle impact					
	 Fire Blast resistance 					
	 Blast resistance Change in Structural System 	me				
	 Removal of walls or colum 					
	Removal of slab sections f	for openings				
	Design or Construction De					
	 Insufficient reinforcements Insufficient structural depti 					
A du conte de o	•					
Advantages	 Used for shear, confineme Flexible, can be wrapped a 					
	 High Strength 	around complex get				
	High Tensile Modulus					
	Non-corrosive					
	 Alkali Resistant Low aesthetic impact 					
Packaging	Rolls: 25 in. x 150 ft					
	Typical Data (Materi RESULTS MAY DIFFER BASED TEMPERATURE, APPLICATION Shelf Life: Storage Condition: Color: Primary Fiber Direction Area Weight:	DUPON STATISTICAL VA N METHODS, TEST METHODS, TEST METHODS, TEST METHODS, TEST METHODS, TEST METHODS, TEST METHODS, TEST METHODS, STORE AND A STORE AN	ARIATIONS H HODS, ACT 10°-95°F (Dnal) yd. (1262	DEPENDING UPON UAL SITE CONDITIO (4°-35°C). : g/m^2)	MIXING ME	THODS AND EQUIPMEN
	Cured Laminate Propert	ies with Sikadur 300	J/Sikadur	Hex 300 Epoxy	/	
		Avg. Ultimate Value		Design Value		
	Property	US Units	SI Units	US Units	SI Units	ASTM Test Method
		psi	MPa	Design	MPa	
	Tensile Strength	178,654	1,231	(f*fu) 124,832	860	D3039/D7565
		-	-	(Ef) 11,200,000	77,221	D3039/D7565
	Tensile Modulus		1.62	(e*fu) 1.0	1.0	D3039/D7565
	Tensile Modulus Tensile % Elongation	1.62		1		
			1.78	0.07	1.78	-
	Tensile % Elongation		1.78	0.07 8.9 kips/in. width	1.78 -	-
	Tensile % Elongation Nominal Ply Thickness (in./mm)	0.07	+		1.78 -	-
R	Tensile % Elongation Nominal Ply Thickness (in./mm)	0.07 12.2 kips/in. width	-	8.9 kips/in. width	-	1

RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

How to Use Surface Preparation	Surface must be clean and sound. It may be dry or damp, but free of standing water and frost. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles, disintegrated materials and other bond inhibiting materials from the surface. Consult the current product data sheets for Sikadur 330 US Sikadur 300/Hex 300 or Sikadur 301 for additional information on surface preparation. Existing uneven surfaces must be filled with an appropriate repair mortar. The adhesive strength of the concrete must be verified after surface preparation by random pull-off testing (ASTM D-4541) at the discretion of the engineer. Minimum tensilt strength, 200 psi (1.4 MPa) with concrete substrate failure. Preparation Work: Concrete - Blast clean, shotblast or use other approved mechanical means to provide a roughened, open-textured surface. Round all corners to 1/2" radius in certain "contact critical" applications and at the engineers discretion, a thorough cleaning of the substrate using low pressure sand or water blasting may be sufficient.
Mixing	Consult the current product data sheets for Sikadur 300, Sikadur 330 US and/or Sikadur Hex 300 for information on epoxy resins.
Application	Prior to placing the fabric, the concrete surface is primed and sealed using Sikadur 330 US and /or Sikadur 300/Hex 300 epoxy. For overhead or vertical applications, prime concrete with Sikadur 330 US to improve tack. SikaWrap Hex 103C 2X can be impregnated using either the Sikadur 300/Hex 300. Sika highly recommends using a mechanically driven fabric saturator in conjunction with Sikadur 300/Hex 300 for heavy weight fabrics. The fabric may also be manually saturated by hand for Sikadur 300/Hex 300 using a roller prior to placement though particular care must be taken to ensure complete saturation. In either case, installation of this system should be performed only by a specially trained contractor. NOTE: On Caltrans DOT projects, only mechanically driven saturation may be used.
Tooling and Finishing	Cutting of SikaWrap: Fabric can be cut to appropriate lengths by using a commercial quality heavy duty scis- sor. Since the dull or worn cutting implements can damage, weaken or fray the fabric, their use should be avoided.
Limitations	 Design calculations must be made and certified by an independent licensed professional engineer. System is a vapor barrier. Concrete should not be fully encapsulated in areas of freeze/thaw. Do not place carbon fiber in direct contact with steel. Must be isolated (e.g. glass fabric) to protect against corrosion.

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Product Data Sheet Edition 5.17.2016 SikaWrap Hex 113C

SikaWrap[®] Hex 113C

Bi-directional Carbon fiber fabric for structural strengthening

Description	dur 300/Hex 300, Sikadur 301 or	ional carbon fiber fabric. Material is field laminated using Sika- Sikadur Hex 330 epoxy to form a carbon fiber reinforced					
	polymer (CFRP) used to strength	en structural elements.					
Where to Use	Load increases						
	 Increased live loads in wareh Increased traffic volumes on 						
	 Installation of heavy machine 	•					
	 Vibrating structures 						
	 Changes of building utilization 	n.					
	Seismic strengthening						
	 Column wrapping 						
	 Masonry walls Damage to structural parts 						
	 Aging of construction materia 	ls					
	 Vehicle impact 						
	■ Fire						
	Change in structural system						
	 Removal of walls or columns 						
	 Removal of slab sections for Design or construction defect 						
	 Insufficient reinforcements 	15					
	 Insufficient structural depth 						
Advantages	 Lightweight fabric ideal for confined spaces 						
Ū	Can be applied in dry or wet lay-up process						
	 Used for shear, confinement 						
	 Flexible, can be wrapped arc 	und complex shapes					
	 High strength Non-corrosive 						
	 Alkali resistant 						
	 Low aesthetic impact 						
	Typical Data						
	RESULTS MAY DIFFER BASED UPO	N STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMEN					
	TEMPERATURE, APPLICATION MET	HODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.					
	Storage Conditions	Store dry at 40°F-95°F					
	Color	Black					
	Primary Fiber Direction	0°/90° (bi-directional)					
	Weight per Square Yard	5.7 oz. (196 g/m²)					
	Weight Ratio (Warp:Weft)	1:1					
	Cured Laminate Propertie	s (0° & 90°) Design Values					
	Tensile Strength	66,000 psi (456 MPa)					
	Tensile Modulus	6.0 x 10 ⁶ psi (41,400 MPa)					
	Elongation at Break	1.2%					
	Thickness	0.010 in. (0.25 mm)					
	Strength per Inch Width	660 lbs./layer (2.92 kN)					
	Fiber Properties						
	Tensile Strength	5 x 10⁵ psi (3,450 MPa)					
	Tensile Modulus	33.4 x 10 ⁶ psi (230,000 MPa)					
	Elongation	1.5%					
	Density	0.065 lbs./in. ³ (1.8 g/cc)					

Packaging	Rolls: 50 in. x 300 ft.
How to Use Surface Preparation	Surface must be clean and sound. It may be dry or damp, but free of standing water and frost. Re- move dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles, disintegrated materials and other bond inhibiting materials from the surface. Consult Sikadur Hex 300 and Sikadur
	330 technical data sheets for additional information on surface preparation. Existing uneven surfaces must be filled with an appropriate repair mortar. The adhesive strength of the concrete must be verified after surface preparation by random pull-off testing (ACI 503R) at the discretion of the engineer. Minimum tensile strength, 200 psi (1.4 MPa) with concrete substrate failure. Preparation Work: Concrete - Blast clean, shotblast or use other approved mechanical means to provide an open roughened texture.
	In certain applications and at the engineer's discretion, the intimate contact between the substrate and the fabric may be determined to be non-critical. In these cases, a thorough cleaning of the substrate using low pressure sand or water blasting is sufficient.
Mixing	Consult Sikadur 300/Hex 300, Sikadur 301 or Sikadur 330 product data sheets for information.
Application	SikaWrap Hex 113C can be applied using wet or dry lay-up methods.
	Dry Lay-Up: Apply the mixed Sikadur 330 or Sikadur 301 epoxy resin directly onto the substrate at a rate of 40-50 ft ² /gal. (32-40 mils), depending on the surface profile. Carefully place the fabric into the resin with gloved hands and smooth out any irregularities or air pockets using a plastic laminating roller. Allow the resin to squeeze out between the rovings of the fabric. If more than one layer of fabric is required, apply additional Sikadur 330 or Sikadur 301 at a rate of 100ft ² /gal. (16 mils) and repeat as above. Apply a final coat of Sikadur 330 or Sikadur 301 to the exposed surface at a rate of 160ft ² /gal. (10 mils).
	Wet Lay-Up: Seal the prepared concrete surface using Sikadur 300/Hex 300 or Sikadur 301. Material may be applied by spray, brush or roller. SikaWrap Hex 113C can be impregnated using the Sikadur 300/Hex 300 or Sikadur 301 epoxy. For best results, the impregnation process should be accomplished using an automated fabric saturator. Once saturated, apply fabric to the sealed concrete surface and smooth out any irregulari-ties or air pockets using a plastic laminating roller. If required, apply additional layers of fabric while epoxy on previous layer is still tacky. Coat the exposed surface of final fabric layer using Sikagard 670W or Sikagard 62.
	Installation of SikaWrap Products should be performed only by specially trained approved contrac- tors.
Cutting SikaWrap	Fabric can be cut to appropriate length by using a commercial quality heavy duty scissor. Since dull or worn cutting implements can damage, weaken or fray the fiber, their use should be avoided. Consult MSDS for proper handling procedures.
Limitations	 Design calculations must be made and certified by an independent licensed professional engineer. System is a vapor barrier. Concrete should not be encapsulated in areas of freeze/thaw.
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SikaWrap[®] Hex 115C

Bi-directional carbon fiber fabric for structural strengthening

Description	caWrap Hex 115C is a bi-directional, high strength, carbon fiber fabric. Material is ninated using Sikadur Hex 300/Hex 300 or Sikadur 301 epoxy to form a carbon fiber reinfollymer (CFRP) used to strengthen structural elements.	
Where to Use	ad increases Increased live loads in warehouses Increased traffic volumes on bridges Installation of heavy machinery in industrial buildings Vibrating structures Changes of building utilization ismic strengthening Column wrapping Masonry walls mage to structural parts Aging of construction materials Vehicle impact Fire Blast resistance mange in structural system Removal of walls or columns Removal of slab sections for openings ssign or construction defects Insufficient reinforcements Insufficient structural depth	
Advantages	Used for shear, confinement or flexural strengthening. Flexible, can be wrapped around complex shapes. High strength. Light weight. Non-corrosive. Alkali resistant. Low aesthetic impact.	
Packaging	Ils: 50 in. x 300 ft.	
How to Use Surface Preparation	rface must be clean and sound. It may be dry or damp, but free of standing water and frost. emove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles, di ated materials and other bond inhibiting materials from the surface. Consult Sikadur 300, kadur 301, Sikadur Hex 300 and Sikadur 330 technical data sheets for additional information rface preparation.	isinte-
	Typical Data RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIP TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS	'MENT, S.
	Storage ConditionsStore dry at 40°-95°F (4°-35°C)ColorBlackPrimary Fiber Direction0°/90° (bi-directional)Weight Per Square Yard19.8 oz. (675 g/m²)	
	Fiber PropertiesTensile Strength5.5 x 105 psi (3,793 MPa)Tensile Modulus33 x 106 psi (234,500 MPa)Elongation4%Density0.065 lbs./in.3 (1.8 g/cc)	
R INSTR	EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNING IONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFET IICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVI T AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIC AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN TH DDUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.	y data Ice de- Gation

Cured Laminate Properties with Sikadur Hex 300 Epoxy Properties after standard cure followed by standard post cure. [70°-75°F (21°-24°C) - 5 days and 48 hour post cure at 140°F (60°C)]

	Average V	alue ¹	Design	ASTM Test	
Property	US Units	SI Units	US Units	SI Units	Method
	Psi	MPa	psi	MPa	
Tensile Strength*	83,980	579	70,870	489	D638
Tensile Modulus*	7,017,555	48,351	6,149,730	42,468	D638
Tensile % Elongation *	1.14	1.14	0.98	0.98	D638
140F - Tensile Strength	74,195	511	64,790	447	D638
140F - Tensile Modulus	6,340,680	43,688	6,203,025	43,739	D638
140F - % Elongation	1.12	1.12	0.96	0.96	D638
Compressive Strength	54,245	373	38,570	267	D695
Compressive Modulus	6,707,855	46,218	6,496,100	44,759	D695
90 deg Tensile Strength	83,980	579	70,870	489	D638
90 deg Tensile Modulus	7,017,555	48,351	6,930,773	47,753	D638
90 deg %Tensile Elongation	1.14	1.14	0.98	0.98	D638
Shear Strength-+/-45 In Plane	14,630	101	12,920	89	D3518
Shear Modulus +/-45 In Plane	0	0	0	0	D3518
Ply Thickness (inch/mm)	0.04	1			
Tensile Strength per inch width in each direction	2583	17.8	1854	12.7	D3039

Cured Laminate Properties with Sikadur Hex 306 Epoxy Properties after standard cure followed by standard post cure. $[70^{\circ}-75^{\circ}F(21^{\circ}-24^{\circ}C) - 5 \text{ days and 48 hour post cure at } 140^{\circ}F(60^{\circ}C)]$

	Average	Value ¹	Design	ASTM Test	
Property	US Units	SI Units	US Units	SI Units	Method
	Psi	MPa	Psi	MPa	
Tensile Strength*	82,080	565	69,825	481	D638
Tensile Modulus*	6,320,350	43,547	5,198,875	35,821	D638
Tensile % Elongation *	1.19	1.19	0.94	0.94	D638
140F - Tensile Strength	54,435	375	45,315	312	D638
140F - Tensile Modulus	4,704,875	32,417	3,779,765	26,044	D638
140F - % Elongation	1.13	1.13	0.76	0.76	D638
Compressive Strength	46,835	323	36,005	248	D695
Compressive Modulus	5,505,155	37,931	4,693,190	32,336	D695
90 deg Tensile Strength	82,080	565	69,825	481	D638
90 deg Tensile Modulus	6,320,350	43,547	5,198,875	35,821	D638
90 deg %Tensile Elongation	1.19	1.19	0.94	0.94	D638
Shear Strength-+/-45 In Plane	12,160	84	11,020	77	D3518
Shear Modulus +/-45 In Plane	416,480	2,870	380,570	2,623	D3518
Ply Thickness (inch/mm)	0.04	1			
Tensile Strength per inch width	3283	14.6	2793	12.4	D3039

* 24 sample coupons per test series; all other values based on 6 coupon test series

¹ Average value of test series - based on year 2000 testing program

Average value minus 3 standard deviations calculated from the year 2000 testing program

Existing uneven surfaces must be filled with an appropriate repair mortar. The adhesive strength of the concrete must be verified after surface preparation by random pull-off testing (ACI 503R) at the discretion of the engineer. Minimum tensile strength, 200 psi (1.4 MPa) with concrete substrate failure.

Preparation Work: Concrete - Blast clean, shotblast or use other approved mechanical means to provide an open roughened texture.

In certain applications and at the engineer's discretion, the intimate contact between the substrate and the fabric may be determined to be non-critical. In these cases, a thorough cleaning of the substrate using low pressure sand or water blasting is sufficient.

 Mixing
 Consult Sikadur 300/Hex 300 or Sikadur 301 data sheets for information on epoxy resins.

 Application
 Prior to placing the fabric, the concrete surface is primed and sealed using Sikadur Hex 300 epoxy.

Applied termInitial to placing the fabric variable of the product of th

Limitations Design calculations must be made and certified by an independent licensed professional engineer. System is a vapor barrier. Concrete should not be encapsulated in areas of freeze/thaw.

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Product Data Sheet Edition 5.17.2016 SikaWrap Hex 117C

SikaWrap[®] Hex 117C Carbon fiber fabric for structural strengthening

Description		tional carbon fiber fabric. Material is field laminated using ir 301 or Sikadur 330 epoxy to form a carbon fiber reinforced a structural elements.						
Where to Use	Load increases Increased live loads in warehou Increased traffic volumes on br Installation of heavy machinery Vibrating structures Changes of building utilization Seismic strengthening Column wrapping Masonry walls Damage to structural parts	idges						
	 Aging of construction materials Vehicle impact Fire Change in structural system Removal of walls or columns Removal of slab sections for operations 	 Fire Change in structural system Removal of walls or columns Removal of slab sections for openings Design or construction defects Insufficient reinforcements 						
Advantages	 Lightweight fabric ideal for com Used for shear, confinement or Flexible, can be wrapped arour High strength Non-corrosive Alkali resistant Low aesthetic impact 	flexural strengthening						
Packaging	Rolls: 12 in. x 300 ft. 24 in. x 300 f	t.						
	TEMPERATURE, APPLICATION METHO Storage Conditions Color Primary Fiber Direction	STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT DS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Store dry at $40^{\circ}-95^{\circ}F(4^{\circ}-35^{\circ}C)$ Black 0° (unidirectional) 0.0 or (200 g/m^2)						
	Weight per Square Yard <i>Cured Laminate Properties</i> Tensile Strength Modulus of Elasticity Elongation at Break Thickness Strength per Inch Width	9.0 oz. (300 g/m ²) Design Values 1.05 x 10 ⁵ psi (724 MPa) 8.2 x 10 ⁶ psi (56,500 MPa) 1.0% 0.02 in. (0.51 mm) 2,100 lbs./layer (9.3 kN)						
	Fiber Properties Tensile Strength Tensile Modulus Elongation Density	550,000 psi (3,793 MPa) 34 x 10 ⁶ psi (234,000 MPa) 1.5% 0.065 lbs/in ³ (1.8 g/cc)						



Surface must be clean and sound. It may be dry or damp, but free of standing water and frost. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles, disinte- grated materials and other bond inhibiting materials from the surface. Consult Sikadur Hex 300 and Sikadur 330 technical data sheets for additional information on surface preparation. Existing uneven surfaces must be filled with an appropriate repair mortar. The adhesive strength of the concrete must be verified after surface preparation by random pull-off testing (ACI 503R) at the discretion of the engineer. Minimum tensile strength, 200 psi (1.4 MPa) with concrete substrate failure. Preparation Work: Concrete - Blast clean, shotblast or use other approved mechanical means to provide an open roughened texture. In certain applications and at the engineer's discretion, the intimate contact between the substrate and the fabric may be determined to be non-critical. In these cases, a thorough cleaning of the sub- strate using low pressure sand or water blasting is sufficient.
Consult Sikadur Hex 300 or Sikadur 330 technical data sheet for information on epoxy resin.
SikaWrap Hex 117C can be applied using wet or dry lay-up methods. Dry Lay-Up: Apply the mixed Sikadur 330 or Sikadur 301 epoxy resin directly onto the substrate at a rate of 40-50 ft. ² /gal. (32-40 mils), depending on the surface profile. Carefully place the fabric into the resin with gloved hands and smooth out any irregularities or air pockets using a plastic laminating roller. Allow the resin to squeeze out between the rovings of the fabric. If more than one layer of fabric is required apply additional Sikadur 330 or Sikadur 301 at a rate of 100ft. ² /gal. (16 mils) and repeat as above. Apply a final coat of Sikadur 330 or Sikadur 301 to the exposed surface at a rate of 160ft. ² /gal. (10 mils).
Wet Lay-Up: Seal the prepared concrete surface using Sikadur 300/Hex 300 or Sikadur 301. Material may be applied by spray, brush or roller. SikaWrap Hex 117C can be impregnated using Sikadur 300/Hex 300 epoxy or Sikadur 301. For best results, the impregnation process should be accomplished using an automated saturation device. Once saturated, apply fabric to the sealed concrete surface and smooth out any irregulari-ties or air pockets using a plastic laminating roller. If required, apply additional layers of fabric while epoxy on previous layer is still tacky. For overhead or vertical applications, prime concrete with Sikadur 330 to improve tack. Saturate fabric with Sikadur 300/Hex 300 or Sikadur 301. Coat the exposed surface of final fabric layer using Sikagard 670W or Sikagard 62. Installation of SikaWrap Products should be performed only by specially trained approved contrac- tors.
Fabric can be cut to appropriate length by using a commercial quality heavy duty scissor. Since dull or worn cutting implements can damage, weaken or fray the fiber, their use should be avoided. Consult MSDS for proper handling procedures.
Design calculations must be made and certified by an independent licensed professional engineer.

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SikaWrap[®] Hex 230C Carbon fiber fabric for structural strengthening

Description		directional carbon fiber fabric. Material is field laminated using Sikadu Sikadur 330 epoxy to form a carbon fiber reinforced polymer (CFRP elements.
Where to Use	Load increases Increased live loads in war Increased traffic volumes of Installation of heavy mach Vibrating structures. Changes of building utiliza Seismic strengthening Column wrapping. Masonry walls. Damage to structural parts Aging of construction mate Vehicle impact. Fire. Change in structural system Removal of walls or column Removal of slab sections of Design or construction defe Insufficient reinforcements Insufficient structural dept	on bridges. inery in industrial buildings. ition. erials. n ins. for openings. ects
Advantages	 Approved by ICBO/ICC EF Lightweight fabric ideal for Can be applied in dry or w Used for shear, confineme Flexible, can be wrapped a High strength. Non-corrosive. Alkali resistant. Low aesthetic impact. 	r confined spaces. ret lay-up process. ent or flexural strengthening.
Packaging	Rolls: 12 in. x 150 ft. 24 in. x	150 ft.
	TEMPERATURE, APPLICATION METH Storage Conditions Color	N STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, HODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Store dry at 40°-95°F (4°-35°C) Black
	Primary Fiber Direction Weight per Square Yard	0° (unidirectional) 6.7 oz. (230 g/m²)
	Fiber Properties Tensile Strength Tensile Modulus	5 x 10⁵ psi (3,450 MPa) 33.4 x 10⁶ psi (230,000 MPa)
	Elongation	1.5%



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0.065 lbs./in.3 (1.8 g/cc)

Density

	afte	er standard	cure [70° -7	5° F (21° -24°	C) - 5 days]		
Surface must be clean and sound. It		Average Value ¹				7	
ing water and frost. Remove dust,	Property	US Units psi	SI Units MPa	US Units psi	SI Units MPa	ASTM Test Method	
laitance, grease, curing compounds, impregnations, waxes, foreign particles,	Tensile Strength*	129,800	894	104,000	715	D-3039	
disintegrated materials, and other bond	Tensile Modulus*	9,492,300	65,402	8,855,000	61,012	D-3039	
Consult Sikadur Hex 300 and Sikadur	Tensile % Elongation*	1.33	1.33	1.09	1.09	D-3039	
information on surface preparation.	140° F (60° C) Tensile Strength	118,200	814	102,000	703	D-3039	
Existing uneven surfaces must be filled with an appropriate repair mortar. The	140° F (60° C) Tensile Modulus	9,789,000	67,450	8,693,000	59,896	D-3039	
adhesive strength of the concrete must	140° F (60° C) % Elongation	1.16	1.16	1.00	1.00	D-3039	
random pull-off testing (ACI 503R) at	Compressive Strength	113,000	779	97,000	668	D-695	
the discretion of the engineer. Minimum tensile strength, 200 psi (1.4 MPa) with	Compressive Modulus	9,724,700	67,003	9,230,000	63,597	D-695	
concrete substrate failure.	90 deg Tensile Strength	3,965	27	390	23	D-3039	
clean, shotblast or use other approved	90 deg Tensile Modulus	852,800	5,876	799,000	5,502	D-3039	
mechanical means to provide an open roughened texture.	90 deg % Tensile Elongation	0.46	0.46	0.40	0.40	D-3039	
In certain applications and at the engi- neer's discretion, the intimate contact	Shear Strength +/-45 in. Plane	9,100	63	8,100	56	D-3518	
between the substrate and the fabric may be determined to be non-critical. In	Shear Modulus +/-45 in. Plane	421,200	2,902	406,000	2,800	D-3518	
these cases, a thorough cleaning of the	Ply Thickness	0.015	0.381				
substrate using low pressure sand or water blasting is sufficient.	 ¹ Average value of test series. ² Average value minus 2 standard deviations 						
Consult Sikadur Hex 300 or Sikadur 330 technical data sheets for information	on epoxy resi	ns.					
Dry Lay-Up: Apply the mixed Sikadur 33 a rate of 40-50 ft. ² /gal. (32-40 mils), deper the resin with gloved hands and smooth o laminating roller. Allow the resin to squee: layer of fabric is required apply additional mils) and repeat as above. Apply a final cat a rate of 160ft. ² /gal. (10 mils).	0 or Sikadur 3 nding on the s ut any irregul ze out betwee Sikadur 330 o pat of Sikadur	301 epox surface pr arities or on the rov or SIkadu 330 or \$	y resin di rofile. Car air pocke rings of th ir 301 at a Sikadur 3	refully place ets using a le fabric. If a rate of 10 01to the e	e the fab plastic f more tha 00ft.²/gal. xposed s	oric into an one (16 surface	
Material may be applied by spray, brush or roller. SikaWrap Hex 230C can be impregnated using either the Sikadur 300/Hex 300 epoxy or Slkadur 301. For best results, the impregnation process should be accomplished using an automated saturator. Once saturated, apply fabric to the sealed concrete surface and smooth out any irregulari-ties or air pockets using a plastic laminating roller. If required, apply additional layers of fabric while epoxy on previous layer is still tacky. For overhead or vertical applications, prime concrete with Sikadur 330 to improve tack. Saturate fabric with Sikadur 300/Hex 300 or Sikadur 301. Coat the exposed surface of final fabric layer using Sikagard 670W or Sikagard 62. Installation of SikaWrap Products should be performed only by specially trained approved contractors.							
Fabric can be cut to appropriate length by dull or worn cutting implements can dama							
Consult MSDS for proper handling proceed		,	,				
	may be dry or damp, but free of stand- ing water and frost. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles, disintegrated materials, and other bond inhibiting materials from the surface. Consult Sikadur Hex 300 and Sikadur 330 technical data sheets for additional information on surface preparation. Existing uneven surfaces must be filled with an appropriate repair mortar. The adhesive strength of the concrete must be verified after surface preparation by random pull-off testing (ACI 503R) at the discretion of the engineer. Minimum tensile strength, 200 psi (1.4 MPa) with concrete substrate failure. Preparation Work: Concrete - Blast clean, shotblast or use other approved mechanical means to provide an open roughened texture. In certain applications and at the engi- neer's discretion, the intimate contact between the substrate and the fabric may be determined to be non-critical. In these cases, a thorough cleaning of the substrate using low pressure sand or water blasting is sufficient. Consult Sikadur Hex 300 or Sikadur 330 technical data sheets for information SikaWrap Hex 230C can be applied using Dry Lay-Up: Apply the mixed Sikadur 33 a rate of 40-50 ft. ² /gal. (32-40 mils), deper the resin with gloved hands and smooth o laminating roller. Allow the resin to squeez layer of fabric is required apply additional mils) and repeat as above. Apply a final ca at a rate of 160ft. ² /gal. (10 mils). Wet Lay-Up: Seal the prepared concrete Material may be applied by spray, brush of either the Sikadur 300/Hex 300 epoxy or should be accomplished using an automa concrete surface and smooth out any irregr required, apply additional layers of fabric or vertical applications, prime concrete wi Sikadur 300/Hex 300 or Sikadur 301. Coa 670W or Sikagard 62. Installation of SikaWrap Products should be Fabric can be cut to appropriate length by	Surface must be clean and sound. It may be dry or damp, but free of stand- ing water and frost. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles, disintegrated materials, and other bond inhibiting materials from the surface. Consult Sikadur Hex 300 and Sikadur 330 technical data sheets for additional information on surface preparation. Existing uneven surfaces must be filled with an appropriate repair mortar. The adhesive strength of the concrete must be verified after surface preparation by random pull-off testing (ACI 503R) at the discretion of the engineer. Minimum tensile strength, 200 psi (1.4 MPa) with concrete substrate failure. Preparation Work: Concrete - Blast clean, shotblast or use other approved mechanical means to provide an open roughened texture. In certain applications and at the engi- neer's discretion, the intimate contact between the substrate and the fabric may be determined to be non-critical. In these cases, a thorough cleaning of the substrate using low pressure sand or 'Aderage value o 'Aderge value o 'Average v	Surface must be clean and sound. It may be dry or damp, but free of stand- ing water and frost. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles, disintegrated materials, and other bond inhibiting materials from the surface. Consult Sikadur Hex 300 and Sikadur 330 technical data sheets for additional information on surface preparation. Existing uneven surfaces must be filled with an appropriate repair mortar. The adhesive strength of the concrete must be verified after surface preparation by random pull-off testing (ACI 503R) at the discretion of the engineer. Minimum tensile strength, 200 psi (1.4 MPa) with concrete substrate failure. Preparation Work: Concrete - Blast clean, shotblast or use other approved mechanical means to provide an open roughened texture. In certain applications and at the engi- neer's discretion, the intimate contact between the substrate and the fabric may be determined to be non-critical. In these cases, a thorough cleaning of the substrate using low pressure sand or water blasting is sufficient. SikaWrap Hex 230C can be applied using wet or dry lay-up mett Dry Lay-Up : Apply the mixed Sikadur 330 or Sikadur 301 epoxy a rate of 40-50 ft. ⁷ (gal. (32-40 mils), depending on the surface pri the resin with gloved hands and smooth out any irregularities or laminating roller. Allow the resin to squeeze out between the roo layer of fabric is required apply additional Sikadur 330 or Sikadur 330 or Sikadur 330 or Sikadur 300/Hex 300 epoxy or Sikadur 330 or Sikadur 330 or Sikadur at a rate of 160ft. ⁷ (gal. (10 mils). Wet Lay-Up : Seal the prepared concrete surface using Sikadur 330 repair as above. Apply a final coat of Sikadur 330 or Sikadur 330 or Sikadur 300/Hex 300 epoxy or Sikadur 330 or Sikadur 330 or Sikadur at a rate of 160ft. ² (gal. (10 mils).	Surface must be clean and sound. It may be dry or damp, but free of stand- ing water and frost. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles, disintegrated materials, and other bond inhibiting materials from the surface. Consult Sikadur Hex 300 and Sikadur 30 technical data sheets for additional information on surface preparation. Existing uneven surfaces must be filled with an appropriate repair mortar. The adhesive strength of the concrete must be verified after surface preparation by random pull-off testing (ACI 503R) at the discretion of the engineer. Minimum tensile strength, 200 psi (1.4 MPa) with concrete substrate failure. Preparation Work: Concrete - Blast clean, shotblast or use other approved mechanical means to provide an open roughened texture. In certain applications and at the engi- neer's discretion, the intimate contact between the substrate and the fabric may be determined to be non-critical. In these cases, a thorough cleaning of the substrate using low pressure sand or water blasting is sufficient. Consult Sikadur Hex 300 or Sikadur 330 technical data sheets for information on epoxy resins. SikaWrap Hex 230C can be applied using wet or dry lay-up methods. Dry Lay-Up: Apply the mixed Sikadur 330 or Sikadur 301 epoxy resin dir a rate of 40-50 ft.//gal. (32-40 mils), depending on the surface profile. Car the resin with gloved hands and smooth out any irregularities or air pocket laminating roller. Allow the resin to squeeze out between the rovings of th layer of fabric is required apply additional Sikadur 330 or Sikadur 330 or Sikadur 330 or Sikadur 330 at a rate of 160ft.//gal. (10 mils). Wet Lay-Up: Seal the prepared concrete surface using Sikadur 300/Hex Material may be applied by spray, brush or roller. Sikadur 300/Hex Material may be applied by spray, brush or roller. Sikadur 330 or Sikadur 330 to improve tack. Sikadur 300/Hex 300 or Sikadur 301. For best results, th should be accomplished using an automated saturator. Once saturated, a con	Surface must be clean and sound. It may be dry or damp, but free of stand- ing water and frost. Remove dust, laitance, grease, curing compounds, disintegrated materials, and other bond inhibiting materials from the surface. Consult Sikadur Hex 300 and Sikadur 330 technical data sheets for additional information on surface preparation. Existing uneven surfaces must be filled with an appropriate repair mortar. The adhesive strength of the concrete bast the discretion of the engineer. Minimum tensile strength, 200 psi (1.4 MPa) with concrete substrate failure. Preparation Work: Concrete - Blast clean, shotblast or use other approved mechanical means to provide an open oughened texture. Gene Tensile Strength 113.00 6.760 C 9.028, 200 6.7450 8.683.000 Preparation Work: Concrete - Blast clean, shotblast or use other approved mechanical means to provide an open oughened texture. 9.028, Tensile 80.28, 00 6.7450 8.693.000 Nater blasting is sufficient. *24 sample coupons per test series. *24 sample coupons per test series. 9.028, Tensile 80.028 6.77 39.020 SikaWrap Hex 230C can be applied using wet or dry lay-up methods. *24 sample coupons per test series. *2 varege value of test series. *24 sample coupons per test series. *24 carefully plac the resin with gloved hands and smooth out any irregularities or air pockets using a laminating roller. Allow the resin to squeeze out between the rovings of the fabric. Material may be applied by spray, brush or roller. Sikadur 330 or Sikadur 330 or Sikadur 330 or Sikadur 330 or Sikadur 330 or Sikadur 330 or Sikadur 330 or Sikadur 330 or Sikadur 330 or Sikadur 330 or Sikadur 330 or Sikadur 330 or Sikadur 330 or Sikadur 330 or Sikadur 330 or Sikadur 330 or Sikad	Marge Value Average Value Design Value* ing water and frost. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles, disintegrated materials (and other bond inhibiting materials from the surface. Consult Sikadur Hex 300 and Sikadur 330 technical data sheets for additional information on surface preparation. Existing uneven surfaces must be filled with an appropriate repair mortar. The adhesive strength of the concrete must be verified after surface preparation by random pull-off testing (ACI 503R) at the discretion of the engineer. Minimum concrete substrate failure. Preparation Work: Concrete - Blast clean, shotblast or use other approved mechanical means to provide an open roughened texture. In certain applications and at the engi- neer's discretion, the intimate contact between the substrate and the fabric may be determined to be non-critical. In testa ing low pressure sand water blasting is sufficient. 0.46 0.46 0.46 0.46 0.46 0.40 0.40 0.40	



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SikaWrap® 1200C High Modulus Carbon Fiber Fabric for Structural Strengthening

Description	SikaWrap® 1200C is a high strength, unidirectional carbon fiber fabric. Material is field laminated using either Sikadur® Hex 300 or Sikadur® Hex 330 epoxy as an impregnating resin to form a carbon fiber reinforced polymer (CFRP) used to strengthen structural elements. For applications to vertical and/or overhead surfaces, either Sikadur® 30 or Sikadur® 330 US is applied on the prepared concrete surface prior to placing the saturated fabric.							
Where to Use	Load Increases Increasing the live Increasing traffic V Installation of hea Vibrating structure Changes of buildin Seismic Strengthen Column wrapping Masonry walls Damage to Structura Aging of construct Vehicle impact Fire Blast Resistance Change in Structura Removal of walls Removal of slab s Design or Construct Insufficient reinfor	volumes on bridge vy machinery in it as ing utilization ing al Parts ion materials I System or columns ections for openie tion Defects cement	es ndustrial l	buildings				
	Typical Data (Mate RESULTS MAY DIFFER I MENT, TEMPERATURE, TIONS. Shelf Life Storage Conditions Color Primary Fiber Directi Area Weight Typical Dry Fiber Pro- Tensile Strength Tensile Modulus Elongation Density Normal Fiber Thickm Cured Laminate Prope Properties after standard	ASSED UPON STATIST APPLICATION METHOR 10 year Store dr Black on 0° (unid) 36.50 o operties 580,000 35.0 x 1 1.7% 0.065 lb extres with Sikadur 30 cure [70°-75°F (21°-24°C Avg. Ultimate	ICAL VARIA S, TEST MI ry at 40°-95 irectional) z/sq.yd (12 0 psi (4.00 (0° psi (240 v/in^3 (1.80 I. (1.63 mm 0/Sikadur H	"F (4°-35°C) 38 g/m ²) GPa) g/cm3) + 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 -	ON MIXING	METHODS AND EQUIP- NS AND CURING CONDI-		
		Value						
	Property	US Units	SI Units	US Units	SI Units	ASTM Test Method		
		psi	MPa	psi	MPa			
	Tensile Strength	168,591.9	1,162.4	(f*fu) 132,650*	914.6	D3039/D7565		
	Tensile Modulus	-	-	(Ef) 10,098,776.6	7,575.8	D3039/D7565		
	Tensile % Elonga- tion	1.4	1.4	(e*fu) 1.02*	1.02*	D3039/D7565		
	Nominal Ply Thick- ness (in./mm)	0.075	1.9	0.075	1.9			
	Tensile Strength per in. width	12.6 kips/in. width	-	9.9 kips/in. width	-	-		
	Stiffness (Ef*A) per in. width	-	-	823.8 kips/in. width	-	-		
	* Average ultimate va	KA PRODUCT, THE	USER MU	JST ALWAYS READ		LOW THE WARNINGS AND		



Advantages	 Used for shear, confinement or flexural strengthening Flexible, can be wrapped around complex shapes High Strength Light Weight Non-corrosive Alkali Resistant Low Aesthetic Impact
Packaging	50 in. x 135 ft. (127 cm x 41.2 m)
How to Use	
Surface Preparation	Surface must be clean and sound. It may be dry or damp, but free of standing water and frost. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles, disintegrated materials, and other bond inhibiting materials from the surface. Existing uneven surfaces must be filled with an appropriate repair mortar. The adhesive strength of the concrete must be verified after surface preparation by random pull-off testing (ACI 503R) at the discretion of the engineer. Minimum tensile strength, 200 psi (1.4 MPa) with concrete substrate failure. Concrete - Blast clean, shotblast or use other approved mechanical means to provide a roughened
	open-textured surface. In certain applications and at the engineer's discretion, the intimate contact between the substrate and the fabric may be determined to be non-critical. In these cases, a thorough cleaning of the substrate using low pressure sand blasting or water blasting is sufficient.
Mixing	Consult the current product data sheet(s) for recommendations on the specified Sikadur epoxy adhesive(s) needed.
Application	Prior to placing the fabric, the concrete surface is primed and sealed using the appropriate Sikadur [®] epoxy adhesive (e.g. Sikadur [®] 30, Sikadur [®] 330 US or Sikadur [®] Hex 300). Material may be applied by spray, brush or roller. SikaWrap [®] 1200C can be impregnated using Sikadur [®] Hex 300 epoxy. For best results on larger projects, the impregnation process should be accomplished using Sikadur [®] Hex 300 and a mechanically driven saturator or similar device. In special cases where the size of the project does not justify the use of a saturator, the fabric may be saturated by hand using a ruller prior to placement. In either case, installation of this system should be performed only by a specially trained contractor. For overhead and vertical applications, prime concrete with Sikadur [®] 30 or Sikadur [®] 330 US to improve tack. Saturate fabric with Sikadur [®] Hex 300. Coat the exposed surface of final fabric layer using Sikagard [®] 670W or Sikagard [®] 62.
Tooling & Finishing	Fabric can be cut to appropriate length by using a commercial quality, heavy duty scissor. Since dull or worn cutting implements can damage, weaken or fray the fiber, their use should be avoided.
Limitations	 DESIGN CALCULATIONS MUST BE MADE AND CERTIFIED BY AN INDEPENDENT LICENSED PROFESSIONAL ENGINEER. SYSTEM IS A VAPOR BARRIER. CONCRETE SHOULD NOT BE ENCAPSULATED IN AREAS
	OF FREEZE/THAW.
	Sika cannot and will not deternine the location, spacing, and orientation of the SikaWrap [®] system installation on actual projects.

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RESPONSIBLE CARE



Product Data Sheet Edition 5.17.2016 Identification no. SikaWrap 600C

SikaWrap[®] 600C ± 45 Double Bias Carbon Fiber Fabric for Structural Strengthening

Description SikaWrap 600C is a high strength, bi-directional carbon fiber fabric. Material is field laminated using Sikadur 300/Hex 300, Sikadur 301 or Sikadur 330 epoxy to form a carbon fiber reinforced polymer (CFRP) used to strengthen structural elements. Where to Use Loading Increases Increasing the live loads in warehouses Increasing traffic volumes on bridges Installation of heavy machinery in industrial buildings Vibrating structures Changes of building utilization Seismic Strengthening Column wrapping Masonry walls Damage to Structural Parts Aging of construction materials Vehicle impact Fire Blast Resistance Change in Structural System Removal of walls or columns removal of slab sections for openings Design or Construction Defects Insufficient reinforcements Insufficient structural depths Advantages Provides high strength in multiple directions Used for shear, confinement or flexural strengthening Flexible, can be wrapped around complex shapes High Strength Light Weight Non-corrosive Alkali Resistant Low Aesthetic Impact Packaging Rolls: 50" x 225 ft

Typical Data

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Storage Conditions Shelf Life	Store dry at 40°-95°F (4°-35°C) 10 years
Product Conditioning	Condition fabric to same temperature as recommended for conditioning the specified Sikadur epoxy adhesive(s)
Color	Black
Primary Fiber Direction	+45/-45° (bidirectional)
Area Weight	17.11 oz/sq.yd (580 g/m2)
Typical Dry Fiber Properties	
Tensile Strength	711,000 psi (4900 MPa)
Tensile Modulus	33.4 x 10 ⁶ psi (230 GPa)
Elongation	2.1%
Density	0.065 lb/in^3 (1.80 g/cm3)

Cured Laminate Properties with Sikadur 300 tested in primary fabric direction Properties after standard cure $[70^\circ-75^\circF (21^\circ-24^\circC) 7 days$

	Avg. Ultimate Value		Design Value		
Property	US Units	SI Units	US Units	SI Units	ASTM Test Method
	psi	Мра	Design	Mpa	
Tensile Strength	117,186 psi	807	(f*fu) 80,166	552	D3039/D7565
Tensile Modulus	-	-	(Ef) 6,500,000	44,815	D3039/D7565
Tensile % Elongation	1.73	1.73	(e*fu) 1.4	1.4	D3039/D7565
Nominal Ply Thickness (in./mm)	0.073	1.85	0.073	1.85	
Tensile Strength per in. width	8.55 kips/in. width	-	5.85 kips/in. width	-	-

All stated values reported above are absolute values based on 20 test specimens

Appropriate safety factors should be applied for design values in accordance with design guide/code





How To Use	
Surface Preparation	Surface must be clean and sound. It may be dry or damp, but free of standing water and frost. Remove dust, lai- tance, grease, curing compounds, impregnations, waxes, foreign particles, disintegrated materials, and other bond inhibiting materials from the surface. Existing uneven surfaces must be filled with an appropriate repair mortar. The adhesive strength of the concrete must be verified after surface preparation by random pull-off testing (ACI 503R) at the discretion of the engineer. Minimum tensile strength, 200 psi (1.4 MPa) with concrete substrate failure.
	Concrete - Blast clean, shotblast or use other approved mechanical means to provide a roughened, open-textured surface. In certain applications and at the engineer's discretion, the intimate contact between the substrate and the fabric may be determined to be non-critical. In these cases, a thorough cleaning of the substrate using low pressure sand blasting or water blasting is sufficient.
Mixing	Consult the current product data sheet(s) for recommendations on the specified Sikadur epoxy adhesive(s) needed
Application	Prior to placing the fabric, the concrete surface is primed and sealed using the appropriate Sikadur epoxy adhesive (e.g. Sikadur 300/Hex 300, Sikadur 301 or Sikadur 330 US). Material may be applied by spray, brush or roller.
	SikaWrap 600C ±45 can be impregnated using Sikadur 300/Hex 300 or Sikadur 301 epoxy. For best results on larger projects, the impreg-nation process should be accomplished using Sikadur Hex 300 and a mechanically driven saturator or similar device. In special cases where the size of the project does not justify the use of a saturator, the fabric may be saturated by hand using a ruler prior to placement. In either case, installation of this system should be performed only by a specially trained contractor.
	For overhead and vertical applications, prime concrete with Sikadur 30 or Sikadur 330 US to improve tack. Saturate fabric with Sikadur Hex 300. Coat the exposed surface of final fabric layer using Sikagard 670W or Sikagard 62.
Tooling & Finishing	Cutting SikaWrap
	Fabric can be cut to appropriate length by using a commercial quality, heavy duty scissor. Since dull or worn cutting implements can damage, weaken or fray the fiber, their use should be avoided.
Limitations	 DESIGN CALCULATIONS MUST BE MADE AND CERTIFIED BY AN INDEPENDENT LICENSED PROFESSIONAL ENGINEER SYSTEM IS A VAPOR BARRIER. CONCRETE SHOULD NOT BE ENCAPSULATED IN AREAS OF FREEZE/THAW Sika cannot and will not determine the location, spacing, and orientation of the SikaWrap system installation on actual projects.

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Product Data Sheet Edition 5.16.2015 Identification no. SikaWrap® FX-50 C

SikaWrap[®] FX-50 C

Carbon fiber rope for structural connection and anchoring of SikaWrap strengthening systems

Description	SikaWrap [®] FX-50 C is a unidirect serves as fibre connector for the	ional carbon fibre string, encased in a plastic envelope, tha anchorage of SikaWrap [®] fabrics.
Where to Use		and glass fibre fabrics on concrete or masonry n or glass fibre fabrics through concrete or masonry struc- d strengthening (NSM)
Advantages	 Carbon fibre, corrosion resista Multifunctional use Easy to install 	ant, durable
Coverage	Primer layer: 0.5 – 0.7 kg/m2 Anchor impregnation: 25 – 30 g/1 SikaWrap® fabrics: Please refer	00 mm to the relevant product data sheet
Packaging	82 ft (25m) rolls on plastic reel dis	spenser in a box
		TISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.
	Fibre Type	Carbon Fiber
	Construction	Unidirectional carbon fiber rope encased in a plastic envelope
	Packaging	25 m roll on a plastic reel dispenser
	Storage Conditions/Shelf-Life	Unlimited, provided there is no exposure to direct sunlight (UV light), in dry conditions and at temperatures of max. 122°F (50°C)
		Transportation only in the original packaging, or otherwise adequately protected against any mechanical damage
	Weight	≥ 15.24 g/ft (carbon fibre content)
	Fibre Cross Section	\geq .034 in ² (based on carbon fibre content)
	Fibre Density	1820 g/l
	Dry fibre properties Values in longit	udinal direction of the fibres
	Tensile Modulus	3.48 *10^7 psi (2.4x10⁵ MPa)
	Tensile Strength	5.8 x 10^5 psi (4000 MPa)
	Elongation at break	>1.6% (nominal)
	Composite Cross Section	.086 sq.in. (assumption: 50% fibre content)
	*Values according to ASTM D 4018	
	Composite Properties	
	Impregnating Resin	Sikadur®-300, Sikadur®-330
	Composite Cross Section	0.1 sq.in. (assumption: 50% fibre content)
	Tensile Modulus	3.33 *10^7 psi (2.3x10⁵ MPa)
		3.04 x 10^5 psi (2100 MPa)



Surface Preparation	
	Minimal substrate tensile strength: 1.0 N/mm2 or as specified in the strengthening design. For further details, see also the Method Statements of installation of SikaWrap [®] FX (Ref. 850 41 09) SikaWrap [®] manual dry application (Ref. 850 41 02) SikaWrap [®] manual wet application (Ref. 850 41 03) or SikaWrap [®] machine wet application (Ref. 850 41 04).
	Concrete and masonry : Substrates must be sound, dry, clean and free from laitance, ice, standing water, grease, oils, old surface treatments or coatings and any loosely adhering particles. Concrete must be cleaned and prepared to achieve a laitance and contaminant free, open textured surface.
	Repairs and levelling: If carbonized or weak concrete cover has to be removed or levelling of uneven surfaces is needed, the following systems can be applied: Structural repair materials: Sikadur®-41 epoxy repair mortar, Sikadur®-30 adhesive or the Sika® MonoTop®-412 (horizontal, vertical, overhead) or Sika® MonoTop®-438 (horizontal, top-side) range (cementitious). (Details on application and limitation see the relevant Product Data Sheets)
	For further details, see also the Method Statements of installation of SikaWrap [®] FX (Ref. 850 41 08), SikaWrap [®] manual dry application (Ref. 850 41 02) SikaWrap [®] manual wet application (Ref. 850 41 03) or SikaWrap [®] machine wet application (Ref. 850 41 04).
Application	The system build-up and configuration as described must be fully complied with and may not be changed.
	Anchorage resin: Sikadur [®] -330, Sikadur [®] 300/Hex 300 or Anchorfix [®] -3001.
	Impregnating / laminating resin: Sikadur®-300/Hex 300
	Structural strengthening fabric: SikaWrap® carbon or glass fibre fabric
	For detailed information on Sikadur®-330 or Sikadur®-300/Hex 300 together with the resin and fabric application details, please refer to the relevant Product Data Sheets and the Method Statements of SikaWrap® manual dry application (Ref. 850 41 02), SikaWrap® manual wet application (Ref. 850 41 03) and Installation of SikaWrap® FX (Ref. 850 41 09).
Tooling & Finishing	Application Method / Tools
	The SikaWrap [®] FX can be cut with special scissors. Please refer to the Method Statement of Installation of SikaWrap [®] FX (Ref. 850 41 09) for the anchor installation and the Method Statement of SikaWrap [®] manual wet application (Ref. 850 41 03) or SikaWrap [®] machine wet application (Ref. 850 41 04) for the impregnating / laminating procedure of the fabrics.
	Notes on Application / Limitations
	This product should only be used by trained and experienced professionals.
	The strengthening application is inherently structural and great care must be taken when choosing suitably experienced contractors.
	Notes and limitations mentioned in the Method Statement Installation of SikaWrap [®] FX (Ref. 850 41 08) must be taken into account.
	The SikaWrap [®] products are coated to ensure maximum bond and durability with the Sikadur [®] adhesives / impregnating / laminating resins. To maintain and ensure full system compatibility, do not interchange different system components.
	The SikaWrap [®] system can be over coated with a cementitious overlay or other coatings for aesthetic and / or protective purposes. The over coating system selection is dependent on the
	exposure and the project specific requirements. For additional UV light protection in exposed areas use Sikagard [®] -550 W or Sikagard 670W.

TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE. Limitations

- This product should only be used by trained and experienced professionals.
- The strengthening application is inherently structural and great care must be taken when choosing suitably experienced contractors.
- Notes and limitations mentioned in the Method Statement Installation of SikaWrap® Fibre Connectors (Ref. 850 41 08) must be taken into account.
- The SikaWrap[®] products are coated to ensure maximum bond and durability with the SikadurR adhesives / impregnating / laminating resins. To maintain and ensure full system compatibility, do not interchange different system components.
- The SikaWrap[®] system can be over coated with a cementitious overlay or other coatings for aesthetic and / or protective purposes. The over coating system selection is dependent on the exposure and the project specific requirements. For additional UV light protection in exposed areas use Sikagard®-550 W Elastic, Sikagard® ElastoColor-675 W or Sikagard®-680 S.
- Please refer to the Method Statement of SikaWrap[®] manual dry application (Ref. 850 41 02), SikaWrap® manual wet application (Ref. 850 41 03) or SikaWrap® machine wet.

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Product Data Sheet Edition 5.17.2016 SikaWrap Hex 100G

SikaWrap Hex[®] 100G Glass fiber fabric for structural strengthening

Description		tional E-glass fiber fabric. Material is field laminated using 301 epoxy to form a glass fiber reinforced polymer (GFRP) used 3.
Where to Use	 Load increases Seismic strengthening of colur Damage to structural parts Temporary strengthening Change in structural system Design or construction defects 	
Advantages	 Approved by ICBO/ICC ER-55 Used for shear, confinement of Flexible, can be wrapped arout Light weight. Non-corrosive. Acid resistant. Low aesthetic impact. Economical. 	r flexural strengthening.
Packaging	Rolls: 50 in. x 30 ft., 50 in. x 150	ft.
How to Use		
Surface Preparation	dust, laitance, grease, curing com rials and other bond inhibiting ma	. It may be dry or damp, but free of standing water and frost. Remove pounds, impregnations, waxes, foreign particles, disintegrated mate terials from the surface. Consult Sikadur 300, Sikadur 301, Sikadu hnical data sheets for additional information on surface preparation
	the concrete must be verified follo	e filled with an appropriate repair mortar. The adhesive strength of owing surface preparation by random pull-off testing (ACI 503R) at nimum tensile strength, 200 psi (1.4 MPa) with concrete substrate
	Preparation Work: Concrete - E provide an open roughened textu	last clean, shotblast or use other approved mechanical means to re.
		engineer's discretion, the intimate contact between the substrate I to be non-critical. In these cases, a thorough cleaning of the d or water blasting is sufficient.
	Trucker I Date	
		N STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, HODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.
	Storage Conditions Color Primary Fiber Direction Weight Per Square Yard	Store dry at 40°-95°F (4°-35°C) White 0° (unidirectional) 27 oz. (913 g/m²)
	Fiber Properties Tensile Strength Tensile Modulus Elongation	3.3 x 10⁵ psi (2,276 MPa) 10.5 x 10⁰ psi (72,413 MPa) 4%

Cured Laminate Properties with Sikadur Hex 300 Epoxy Properties after standard cure followed by standard post cure [70°-75°F (21°-24°C) - 5 days, 48 hours at 140°F (60°C)]

	Average	Value ¹	Design	Value ²	
Property	US Units, psi	SI Units, MPa	US Units, psi	SI Units, MPa	ASTM Test Method
Tensile Strength*	88,800	612	77,100	531	D-3039
Tensile Modulus*	3,790,800	26,119	3,426,300	23,607	D-3039
Tensile % Elongation*	2.45	2.45	2.12	2.12	D-3039
140°F - Tensile Strength	79,900	551	75,700	521	D-3039
140°F - Tensile Modulus	3,728,000	25,690	3,221,600	22,197	D-3039
140°F - % Elongation	2.28	2.28	2.07	2.07	D-3039
Compressive Strength	86,600	597	74,600	515	D-695
Compressive Modulus	4,312,700	29,715	3,903,800	23,384	D-695
90° Tensile Strength	4,400	30	2,900	20	D-3039
90° Tensile Modulus	965,000	6,649	892,700	6,159	D-3039
90° % Tensile Elongation	0.46	0.46	0.28	0.28	D-3039
Shear Strength, +/- 45 in. Plane	5,800	40	4,600	32	D-3518
Shear Modulus +/- 45 in. Plane	335,900	2,314	291,500	2,012	D-3518
Ply Thickness (in./mm)	0.04	1.016	0.04	1.016	

Cured Laminate Properties with Sikadur Hex 306 Epoxy Properties after standard cure followed by standard post cure [70°-75°F (21°-24°C) - 5 days, 48 hours at 140°F (60°C)]

	Average	Value ¹	Design	Value ²	
Property	US Units, psi	SI Units, MPa	US Units, psi	SI Units, MPa	ASTM Test Method
Tensile Strength*	83,400	575	72,900	484	D-3039
Tensile Modulus*	3,672,000	25,300	2,999,900	20,044	D-3039
Tensile % Elongation*	2.31	2.31	1.89	1.89	D-3039
140°F - Tensile Strength	69,300	477	62,400	431	D-3039
140°F - Tensile Modulus	3,306,400	22,781	2,970,700	20,468	D-3039
140°F - % Elongation	2.19	2.19	1.92	1.92	D-3039
Compressive Strength	75,000	517	64,800	447	D-695
Compressive Modulus	4,248,200	29,270	2,902,400	24,446	D-695
90° Tensile Strength	5,000	34	3,200	22	D-3039
90° Tensile Modulus	819,800	5,648	710,300	4,895	D-3039
90° % Tensile Elongation	0.66	0.66	0.45	0.45	D-3039
Shear Strength, +/- 45 in. Plane	6,100	42	5,500	38	D-3518
Shear Modulus +/- 45 in. Plane	337,200	2,323	297,600	2,050	D-3518
Ply Thickness (in./mm)	0.04	1.016	0.04	1.016	

* 24 sample coupons per test series; all other values based on 6 coupon test series Average value of test series

Average value minus 3 standard deviations

Consult either Sikadur 300, Sikadur 301, or Sikadur Hex 300/306 data sheets for information on epoxy Mixing resins.

Application	Prior to placing the fabric, the concrete surface is sealed using Sikadur 300/Hex 300 or SIkadur 301 epoxy. Material may be applied by spray, brush or roller. SikaWrap Hex 100G can be impregnated using Sikadur Hex 300 epoxy. For best results on larger projects, the impregnation process should be accomplished using a mechanically driven fabric saturator or similar device. In special cases where the size of the project does not justify the use of a saturator, the fabric may be saturated by hand using a roller prior to placement. In either case, installation of this system should be performed only by a specially trained, approved contractor.
	For overhead and vertical applications, prime concrete with Sikadur 30 or Sikadur 330 to improve tack. Saturate fabric with Sikadur 300/Hex 300 or Sikadur 301.

Cutting SikaWrap Fabric can be cut to appropriate length by using a commercial quality heavy duty scissor. Since dull or worn cutting implements can damage, weaken or fray the fiber their use should be avoided. Consult MSDS for proper handling procedures. Limitation

ons	•	Design calculations must be made and certified by an independent licensed professional engi-
		neer.
	•	System is a vapor barrier. Concrete should not be encapsulated in areas of freeze/thaw.

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SikaWrap[®] Hex 106G

Bi-directional Glass fiber fabric for structural strengthening

ted using d polymer
EQUIPMENT, ITIONS.



How to Use	
Surface Preparation	Surface must be clean and sound. It may be dry or damp, but free of standing water and frost. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles, disinte- grated materials, and other bond inhibiting materials from the surface. Consult Sikadur Hex 300 and Sikadur 330 technical data sheets for additional information on surface preparation. Existing uneven surfaces must be filled with an appropriate repair mortar. The adhesive strength of the concrete must be verified following surface preparation by random pull-off testing (ACI 503R) at the discretion of the engineer. Minimum tensile strength, 200 psi (1.4 MPa) with concrete substrate failure. Preparation Work: Concrete - Blast clean, shotblast or use other approved mechanical means to provide an open roughened texture.
	In certain applications and at the engineer's discretion, the intimate contact between the substrate and the fabric may be determined to be non-critical. In these cases, a thorough cleaning of the substrate using low pressure sand or water blasting is sufficient.
Mixing	Consult Sikadur 330, Sikadur 301 or Sikadur 300/Hex 300 product data sheets for more information
Application	SikaWrap Hex 106G can be applied using wet or dry lay-up methods.
	Dry Lay-Up: Apply the mixed Sikadur 330 or Sikadur 301 epoxy resin directly onto the substrate at a rate of 40-50 ft ² /gal. (32-40 mils), depending on the surface profile. Carefully place the fabric into the resin with gloved hands and smooth out any irregularities or air pockets using a plastic laminating roller. Al-low the resin to squeeze out between the rovings of the fabric. If more than one layer of fabric is required apply additional Sikadur 330/301 at a rate of 100ft ² /gal. (16 mils) and repeat as above. Apply a final coat of Sikadur 330/301 to the exposed surface at a rate of 160ft ² /gal. (10 mils).
	Wet Lay-Up: Seal the prepared concrete surface using Sikadur 300/Hex 300. Material may be applied by spray, brush or roller. SikaWrap Hex 106G can be impregnated using Sikadur 300/Hex 300 epoxy. For best results, the impregnation process should be accomplished using an automated fabric saturating device. Once saturated, apply fabric to the sealed concrete surface and smooth out any irregularities or air pockets using a plastic laminating roller. If required, apply additional layers of fabric while epoxy on previous layer is still tacky. For vertical and overhead applications, prime with Sikadur 330 for improved tack. Coat the exposed surface of final fabric layer using Sikagard 670W or Sikagard 62.
	Installation of SikaWrap products should be performed only by specially trained approved contrac- tors.
Cutting SikaWrap	Fabric can be cut to appropriate length by using a commercial quality heavy duty scissor. Since dull or worn cutting implements can damage, weaken or fray the fiber their use should be avoided. Consult MSDS for proper handling procedures.
Limitations	 Design calculations must be made and certified by an independent licensed professional engineer. System is a vapor barrier. Concrete should not be encapsulated in areas of freeze/thaw.

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SikaWrap[®] Pre-saturated 103C

Carbon fiber fabric for structural strengthening

Description	SikaWrap [®] Pre-saturated 103C is a high strength, unidirectional carbon fiber fat pre-saturated to form a carbon fiber reinforced polymer (CFRP) used to strength structural concrete elements.				
Where to Use					
	Increased traffic volumes on bridges				
	Installation of heavy machinery in industrial buildings				
	Vibrating structures				
	Changes of building utilization				
	Seismic Strengthening				
	■ Column wrapping				
	 Masonry walls 				
	Damage to Structural Parts				
	■ Aging of construction materials				
	■ Vehicle impact				
	■ Fire				
	Blast resistance				
	Change in Structural System				
	Removal of walls or columns				
	Removal of slab sections for openings				
	Design or Construction Defects				
	Insufficient reinforcements				
	Insufficient structural depth				
Advantages	Used for shear, confinement or flexural strengthening				
	Flexible, can be wrapped around complex geometries				
	High Strength				
	■ Light Weight				
	■ Non-corrosive				
	Alkali Resistant				
	■ Low aesthetic impact				
Packaging	Rolls: 24 in. x 30 ft.; Box of 2 rolls				
	Typical Data				
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDI- TIONS AND CURING CONDITIONS.				
	Store dry at 40°F - 95°F (4° - 35°C)				
	Shelf Life: 1 year in original packaging at recommended storage condition				
	Color: Black Primary Fiber Direction: 0°F (unidirectional)				
	Areal Weight: 18 oz. / sq. yd. (618 g/m^2)				
	Open Time: 2 hrs. after foil is opened				
	Typical Fiber Properties				
	Property Typical Test Value				
	Tensile Strength5.5 x 10^5 psi (3,793 MPa)				
	Tensile Modulus 34 x 10^6 (234,500 MPa) Elongation 1.5%				
	Density 0.065 lbs./in^3 (1.8 g/cc)				
	Normal Fiber Thickness 0.0135 in. (0.34 mm)				
ka®	PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS A INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY D. SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGAT TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE C				

	Avg. Ultim	ate Value	Design V	alue	
Property	US Units	SI Units	US Units	SI Units	ASTM Test Method
	psi	MPa	psi	MPa	
Tensile Strength	147,594	1,018	(f* _{fu}) 120,589*	831*	D3039/D7565
Tensile Modulus	-	-	(E _T) 12,320,000	84,943	D3039/D7565
Tensile % Elongation	1.12	1.12	(ε* _{fu}) 1.0*	1.0*	D3039/D7565
Nominal Ply Thickness (in./mm)	0.035	0.889	0.035	0.889	-
Tensile Strength per in. width	5.17 kips/in. width	-	4.22 kips/in. width*	-	-
Stiffness (E *A) per in. width	-	-	431.2 kips/in. width	-	-

How to Use

Surface Preparation	Surface must be clean and sound. It may be dry or damp, but free of standing water and frost. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles, disintegrated materials and other bond inhibiting materials from the surface. Consult the current product data sheets for Sikadur 340 for additional information on surface preparation.
	Existing uneven surfaces must be filled with an appropriate repair mortar. The adhesive strength of the concrete must be verified after surface preparation by random pull-off test- ing (ASTM D-4541) at the discretion of the engineer. Minimum tensile strength, 200 psi (1.4 MPa) with concrete substrate failure.
	Preparation Work: Concrete - Blast clean, shotblast or use other approved mechanical means to provide a roughened, open-textured surface.Round all corners to 1/2" radius in certain "contact critical" applications and at the engineers discretion, a thorough cleaning of the substrate using low pressure sand or water blasting may be sufficient.
Application	Prior to placing the fabric, the concrete surface is primed and sealed using Sikadur® 340. In either case, installation of this system should be performed only by a specially trained contractor.
Tooling & Finishing	Fabric can be cut to appropriate lengths by using a commercial quality heavy duty scissor. Since the dull or worn cutting implements can damage, weaken or fray the fabric, their use should be avoided.
Limitations	 System is a vapor barrier. Concrete should not be fully encapsulated in areas of freeze/thaw.
	 Design calculations must be made and certified by an independent licensed professional engineer.
	 Do not place carbon fiber in direct contact with steel. Must be isolated (e.g. glass fabric) to protect against corrosion.

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1-800-933-SIKA NATIONWIDE





C330

SikaWrap[®] Pre-saturated 117C

Carbon fiber fabric for structural strengthening

Description		SikaWrap [®] Pre-saturated 117C is a unidirectional carbon fiber fabric pre-saturated to form a carbon fiber reinforced polymer (CFRP) used to strengthen structural concrete elements.			
Where to Use	Load Increases				
	Increased live loads				
	 Increased traffic volumes on 	bridges			
	 Installation of heavy machinery in industrial buildings 				
	 Vibrating structures Changes of building utilization 				
	• •	11			
	Seismic Strengthening				
	Column wrapping				
	Masonry walls				
	Damage to Structural Parts				
	Aging of construction materia	als			
	Vehicle impact				
	∎ Fire				
	Blast resistance				
	Change in Structural System	1			
	Removal of walls or columns				
	 Removal of slab sections for 				
	Design or Construction Defe				
	 Insufficient reinforcements Insufficient structural depth 				
ducenterios	•				
dvantages	Used for shear, confinement or flexural strengthening				
	Flexible, can be wrapped around	d complex geometries			
	High Strength				
	Light Weight				
	Non-corrosive				
	Alkali Resistant				
	Low aesthetic impact				
ackaging	Rolls: 24 in. x 30 ft.; Box of 2 rolls				
	Typical Data				
		CAL VARIATIONS DEPENDING UPON MIXING METHODS ON METHODS, TEST METHODS, ACTUAL SITE CONDI-			
	Storage:	Store dry at 40°F - 95°F (4° - 35°C)			
	Shelf Life:	1 year in original packaging at recommended storage condit			
	Color:	Black			
	Primary Fiber Direction: Areal Weight:	0°F (unidirectional) 9 oz. / sq. yd. (300 g/m^2)			
	Open Time:	2 hrs. after foil is opened			
	Typical Fiber Properties				
	Property	Typical Test Value			
	Tensile Strength	5.5 x 10^5 psi (3,793 MPa)			
	Tensile Modulus	34 x 10^6 (234,500 MPa)			
	Elongation Density	1.5% 0.065 lbs./in^3 (1.8 g/cc)			
	LIANSITY	U.U.5 IDS./ID^3 (1.8 0/CC)			

RTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

	Avg. Ultim	Avg. Ultimate Value		Design Value	
Property	US Units	SI Units	US Units	SI Units	ASTM Test Method
	psi	MPa	psi	MPa	
Tensile Strength	119,770	825	(f* _{fu}) 93,662*	645*	D3039/D7565
Tensile Modulus	-	-	(E _T)8,973,997	61,873	D3039/D7565
Tensile % Elongation	1.22	1.22	(ε* _{fu}) 1.04*	1.04*	D3039/D7565
Nominal Ply Thickness (in.	/ mm) 0.019	0.48	0.019	0.48	-
Tensile Strength per in. wie	dth 5.17 kips/in. width	-	1.78 kips/in. width*	-	-
Stiffness (E *A) per in. wide	th -	-	170.5 kips/in. width	-	-
* Average ultimate value m	inus 3 standard deviations				
	of the concrete must be D-4541) at the discretio	verified after s n of the engine	urface preparation	by random p	oull-off test- ing (AS
	D-4541) at the discretio concrete substrate failur Preparation Work: Con to provide a roughened, tact critical" applications using low pressure sand	verified after s n of the engine re. crete - Blast cle open-textured s and at the eng t or water blasti	urface preparation eer. Minimum tensil ean, shotblast or use surface.Round all co ineers discretion, a ing may be sufficier	by random p e strength, 2 other approv orners to 1/2' thorough cle nt.	oull-off test- ing (AS 200 psi (1.4 MPa) ved mechanical me " radius in certain "c eaning of the subst
Application	D-4541) at the discretio concrete substrate failur Preparation Work: Con to provide a roughened, tact critical" applications	verified after s n of the engine e. crete - Blast cle open-textured s and at the eng or water blasti ic, the concrete	urface preparation eer. Minimum tensil ean, shotblast or use surface.Round all co ineers discretion, a ng may be sufficier e surface is primed	by random p e strength, 2 other appro- prners to 1/2' thorough cle nt. and sealed	200 psi (1.4 MPa) ved mechanical me " radius in certain "c eaning of the subst using Sikadur 340
	D-4541) at the discretion concrete substrate failur Preparation Work: Con to provide a roughened, tact critical" applications using low pressure sand Prior to placing the fabr either case, installation of	verified after s n of the engine e. crete - Blast cle open-textured s and at the eng d or water blasti ic, the concrete of this system sl	urface preparation eer. Minimum tensil ean, shotblast or use surface.Round all co ineers discretion, a ing may be sufficier e surface is primed hould be performed	by random p e strength, 2 other appro- priners to 1/2' thorough cle nt. and sealed only by a sp mercial quali	oull-off test- ing (AS 200 psi (1.4 MPa) ved mechanical me " radius in certain "c eaning of the subst using Sikadur 340 ecially trained cont
Application Fooling & Finishing _imitations	 D-4541) at the discretion concrete substrate failur Preparation Work: Conto provide a roughened, tact critical" applications using low pressure sand Prior to placing the fabre either case, installation of tor. Fabric can be cut to application since the dull or worn of should be avoided. System is a vapor bar freeze/thaw. 	verified after s n of the engine crete - Blast cle open-textured s and at the eng or water blasti ic, the concrete of this system sl propriate lengt cutting impleme	urface preparation eer. Minimum tensil ean, shotblast or use surface.Round all co ineers discretion, a ing may be sufficier e surface is primed hould be performed hs by using a com ents can damage, w should not be fully	by random p e strength, 2 other approvorners to 1/2' thorough cleant. and sealed only by a sp mercial quality veaken or fra	oull-off test- ing (AS 200 psi (1.4 MPa) v ved mechanical me " radius in certain "c eaning of the subst using Sikadur 340 ecially trained cont ity heavy duty scis ay the fabric, their d in areas of
Fooling & Finishing	 D-4541) at the discretion concrete substrate failur Preparation Work: Conto provide a roughened, tact critical" applications using low pressure sand Prior to placing the fabre either case, installation of tor. Fabric can be cut to application since the dull or worn of should be avoided. System is a vapor bar 	verified after s n of the engine e. crete - Blast cle open-textured s and at the eng d or water blasti ic, the concrete of this system sl propriate lengt cutting impleme rrier. Concrete nust be made a r.	urface preparation eer. Minimum tensil ean, shotblast or use surface.Round all co ineers discretion, a ing may be sufficier e surface is primed hould be performed the by using a comments of damage, we should not be fully of and certified by an in	by random p e strength, 2 other appro- priners to 1/2' thorough cleant. and sealed only by a sp mercial quali veaken or fra encapsulated	oull-off test- ing (AS 200 psi (1.4 MPa) ved mechanical me " radius in certain "d eaning of the subst using Sikadur 340 ecially trained cont ity heavy duty scis ay the fabric, their d in areas of licensed

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SikaWrap[®] Pre-saturated 100G

Glass fiber fabric for structural strengthening

Description	SikaWrap [®] Pre-saturated 100G is a high strength, unidirectional glass fiber fabi pre-saturated to form a glass fiber reinforced polymer (GFRP) used to strengthe structural concrete elements.				
Where to Use	Load Increases Increased live loads Increased traffic volumes on bridges Installation of heavy machinery in industrial buildings Vibrating structures Changes of building utilization 				
	Seismic Strengthening ■ Column wrapping				
	 Masonry walls Damage to Structural Parts Aging of construction materials Vehicle impact 				
	 Fire Blast resistance Change in Structural System 				
	 Removal of walls or columns Removal of slab sections for openings 				
	Design or Construction Defects Insufficient reinforcements Insufficient structural depth 				
Advantages	 Used for shear, confinement or flexural strengthening Flexible, can be wrapped around complex geometries Used Strength 				
	 High Strength Light Weight Non-corrosive 				
	 Alkali Resistant 				
Packaging	■ Low aesthetic impact Rolls: 24 in. x 30 ft.; Box of 2 rolls				
	Typical Data				
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDI- TIONS AND CURING CONDITIONS.				
	Storage:Store dry at 40°F - 95°F (4° - 35°C)Shelf Life:1 year in original packaging at recommended storage conditioColor:White				
	Primary Fiber Direction:0°F (unidirectional)Areal Weight:27 oz. / sq. yd. (913 g/m^2)Open Time:2 hrs. after foil is opened				
	Typical Fiber Properties Property Typical Test Value Tensile Strength 3.3 x 10^5 psi (3,793 MPa)				
	Tensile Modulus 10.5 x 10^6 (234,500 MPa) Elongation 4.0% Density 0.092 lbs./in^3 (2.54 g/cc) Nominal Fiber Thickness 0.014 in (0.359 mm)				
ka	PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AN INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE D PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CU RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.				

Cured Laminate Properties					
	Avg. Ultim	ate Value	Design V	alue	
Property	US Units	SI Units	US Units	SI Units	ASTM Test Method
	psi	MPa	psi	MPa	
Tensile Strength	71,457	492	(f* _{fu}) 64,226*	442*	D3039/D7565
Tensile Modulus	-	-	(E _T)3,807,839	26,254	D3039/D7565
Tensile % Elongation	1.85	1.85	(ε* _{fu}) 1.69*	1.69*	D3039/D7565
Nominal Ply Thickness (in./mm)	0.050	1.27	0.050	1.27	-
Tensile Strength per in. width	3.57 kips/in. width	-	3.21 kips/in. width*	-	-
Stiffness (E *A) per in. width	-	-	190 kips/in. width	-	-
* Average ultimate value minus 3 standard deviations					

How to Use

Surface Preparation	Surface must be clean and sound. It may be dry or damp, but free of standing water and frost. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles, disintegrated materials and other bond inhibiting materials from the surface. Consult the current product data sheets for Sikadur 340 for additional information on surface preparation. Existing uneven surfaces must be filled with an appropriate repair mortar. The adhesive strength of the concrete must be verified after surface preparation by random pull-off test- ing (ASTM
	D-4541) at the discretion of the engineer. Minimum tensile strength, 200 psi (1.4 MPa) with concrete substrate failure.
	Preparation Work: Concrete - Blast clean, shotblast or use other approved mechanical means to provide a roughened, open-textured surface.Round all corners to 1/2" radius in certain "contact critical" applications and at the engineers discretion, a thorough cleaning of the substrate using low pressure sand or water blasting may be sufficient.
Application	Prior to placing the fabric, the concrete surface is primed and sealed using Sikadur 340. In either case, installation of this system should be performed only by a specially trained contractor.
Tooling & Finishing	Fabric can be cut to appropriate lengths by using a commercial quality heavy duty scissor. Since the dull or worn cutting implements can damage, weaken or fray the fabric, their use should be avoided.
Limitations	 System is a vapor barrier. Concrete should not be fully encapsulated in areas of freeze/thaw.
	 Design calculations must be made and certified by an independent licensed professional engineer.

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Sika Mexicana S.A. de C.V.

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Carretera Libre Celaya Km. 8.5



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1-800-933-SIKA NATIONWIDE





SikaWrap[®] Pre-saturated 430G

Glass fiber fabric for structural strengthening

Description SikaWrap [®] Pre-saturated 430G is a unidirectional glass fiber fabric pre-saturated form a glass fiber reinforced polymer (GFRP) used to strengthen structural concerned elements.					
Where to Use	Load Increases Increased live loads Increased traffic volumes on bridges Installation of heavy machinery in industrial buildings Vibrating structures Changes of building utilization 				
	Changes of building utilization				
	Seismic Strengthening				
	Column wrapping				
	Masonry walls				
	Damage to Structural Parts				
	Aging of construction materials				
	Vehicle impact				
	■ Fire				
	■ Blast resistance				
	Change in Structural System				
	Removal of walls or columns				
	Removal of slab sections for openings				
	Design or Construction Defects				
	Insufficient reinforcements				
	Insufficient structural depth				
Advantages	Used for shear, confinement or flexural strengthening				
	Flexible, can be wrapped around complex geometries				
	High Strength				
	Light Weight				
	■ Non-corrosive				
	■ Alkali Resistant				
	■ Low aesthetic impact				
Packaging	Rolls: 24 in. x 30 ft.; Box of 2 rolls				
	Typical Data				
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDI- TIONS AND CURING CONDITIONS.				
	Storage: Store dry at 40°F - 95°F (4° - 35°C)				
	Shelf Life: 1 year in original packaging at recommended storage condit	ions			
	Color: White Primary Fiber Direction: 0°F (unidirectional)				
	Areal Ŵeight: 13 oż. / sq. yd. (440 g/m^2)				
	Open Time: 2 hrs. after foil is opened				
	Typical Fiber Properties				
	Property Typical Test Value				
	Tensile Strength 3.3 x 10^5 psi (3,793 MPa) Tensile Modulus 10.5 x 10^6 (234,500 MPa)				
	Elongation 4.0%				
	Density 0.092 lbs./in^3 (2.54 g/cc)				
R	Nominal Fiber Thickness 0.0068 in (0.173 mm) PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS	ANI			
ka	INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY D SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGA' TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE C RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.	DAT/ DE			

Cured Laminate Properties					
	Avg. Ultim	ate Value	Design V	alue	
Property	US Units	SI Units	US Units	SI Units	ASTM Test Method
	psi	MPa	psi	MPa	
Tensile Strength	62,985	434	(f* _{fu}) 51,328*	353*	D3039/D7565
Tensile Modulus	-	-	(E _⊤)4,357,548	30,044	D3039/D7565
Tensile % Elongation	1.44	1.44	(ε* _{fu}) 1.40*	1.40*	D3039/D7565
Nominal Ply Thickness (in./mm)	0.025	0.64	0.025	0.64	-
Tensile Strength per in. width	1.57 kips/in. width	-	1.28 kips/in. width*	-	-
Stiffness (E *A) per in. width	-	-	109 kips/in. width	-	-
* Average ultimate value minus 3 standard deviations					
* Average ultimate value minus 3 standard deviations					

How to Use

Construe

Surface Preparation	Surface must be clean and sound. It may be dry or damp, but free of standing water and frost. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles, disintegrated materials and other bond inhibiting materials from the surface. Consult the current product data sheets for Sikadur 340 for additional information on surface preparation. Existing uneven surfaces must be filled with an appropriate repair mortar. The adhesive strength
	of the concrete must be verified after surface preparation by random pull-off test- ing (ASTM D-4541) at the discretion of the engineer. Minimum tensile strength, 200 psi (1.4 MPa) with concrete substrate failure.
	Preparation Work: Concrete - Blast clean, shotblast or use other approved mechanical means to provide a roughened, open-textured surface.Round all corners to 1/2" radius in certain "contact critical" applications and at the engineers discretion, a thorough cleaning of the substrate using low pressure sand or water blasting may be sufficient.
Application	Prior to placing the fabric, the concrete surface is primed and sealed using Sikadur 340. In either case, installation of this system should be performed only by a specially trained contractor.
Tooling & Finishing	Fabric can be cut to appropriate lengths by using a commercial quality heavy duty scissor. Since the dull or worn cutting implements can damage, weaken or fray the fabric, their use should be avoided.
Limitations	 System is a vapor barrier. Concrete should not be fully encapsulated in areas of freeze/thaw.
	 Design calculations must be made and certified by an independent licensed professional engineer.

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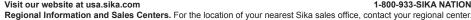
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Sikadur[®] 31, Hi-Mod Gel LPL

High-modulus, high-strength, structural, extended pot life, epoxy paste adhesive

Description	Sikadur [®] 31, Hi-Mod Gel LPL is a 2-component, 100% solids, moisture-insensitive, high-modulus, high-strength, structural epoxy paste adhesive. It conforms to the current ASTM C-881, Types I and IV, Grade-3, Class-C and AASHTO M-235 specifications.
Where to Use	 Structural bonding of concrete, masonry, metals, wood, etc. to a maximum glue line of 1/8 in. (3mm). Seals cracks and around injection ports prior to pressure-injection grouting. Interior, vertical, and overhead repair of concrete as an epoxy mortar binder. As a pick-proof sealant around windows, doors, lock-ups etc. inside correctional facilities.
Advantages	 Extended pot life. Moisture-tolerant before, during, and after cure. High-modulus, high-strength, structural paste adhesive. Excellent adhesion to concrete, masonry, metals, wood, and most structural materials. Paste consistency ideal for vertical and overhead applications. Fast-setting and strength-producing adhesive. Convenient easy mix ratio A:B = 2:1 by volume.
Coverage	1 gal. yields 231 cu. in. of epoxy paste adhesive and grout. 1 gal. mixed with 1 gal. by loose volume of oven-dried aggregate yields approximately 346 cu. in. of epoxy mortar.
Packaging	3-gal. units.

Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Shelf Life 2 years in original, unopened containers. **Storage Conditions** Store dry at 40°-95°F (4°-35°C). Condition material to 65°-75°F (18°-24°C) before using. Color Concrete gray **Mixing Ratio** Component 'A' : Component 'B' = 2:1 by volume Consistency Non-sag paste Pot Life Approximately 120 minutes @ 73°F (23°C) (gallon volume) Approximately 60 minutes @ 90°F (32°C) (gallon volume) **Tack-Free Time** 6-8 hours Bond Strength (ASTM C-882): Hardened Concrete to Hardened Concrete 2 day Bond Strength 2,000 psi (20.7 MPa) 14 day Bond Strength 2,300 psi (20.0 MPa) (moist cure) Heat Deflection Temperature (ASTM D-648) [fiber stress loading = 264 psi (1.8 MPa)] 124°F (51°C) 7 day **Compressive Properties (ASTM D-695)** Compressive Strength, psi (MPa) 73°F (23°C) 36 hour 6,400 (41.4) 2 day 7,000 (41.4) 9,000 (48.3) 3 day



How to Use	
Surface Preparation	Surface must be clean and sound. It may be dry or damp, but free of standing water. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles, disintegrated materials and any other contaminants. Preparation Work: Concrete - Sandblast or use other approved mechanical methods. Steel - Blast clean or use other equivalent mechanical means to achieve a white metal finish.
Mixing	Pre-mix each component. Proportion 1 part Component 'B' to 2 parts Component 'A' by volume into a clean pail. Mix thoroughly for 3 minutes with Sika paddle on low-speed (400 - 600 rpm) drill unti uniform in color. Mix only that quantity that can be used within its pot life.
	To prepare an epoxy mortar: Slowly add up to 1 part by loose volume of an oven-dried aggregate to 1 part of the mixed Sikadur [®] 31, Hi-Mod Gel LPL and mix until uniform in consistency.
Application	As a structural adhesive - Apply the neat mixed Sikadur [®] 31, Hi-Mod Gel LPL, to the mating or non- mating prepared substrates. Work into the substrate for positive adhesion. Secure the bonded unit firmly into place until the adhesion has cured. Glue line should not exceed 1/8 in. (3 mm).
	To seal cracks for injection grouting - Place the neat mixed material over the cracks to be pressure injected and around each injection port. Allow sufficient time to set before pressure injecting.
	For interior vertical and overhead patching - Place the prepared mortar in void, working the material into the prepared substrate, filling the cavity. Strike off level. Lifts should not exceed 1 in. (25 mm).
	As a pick-proof sealant - Use automated or manual method. Apply an appropriate size bead of material around the area being sealed. Seal with neat Sikadur [®] 31, Hi-Mod Gel LPL.
Limitations	 Minimum substrate and ambient temperature 40°F (4°C). Do not thin. Addition of solvents will prevent proper cure. Use oven-dried aggregate only. Maximum epoxy mortar thickness is 1 in. (25 mm) per lift. Epoxy mortar is for interior use only. Material is a vapor barrier after cure. Minimum age of concrete must be 21-28 days, depending upon curing and drying conditions, for mortar applications. Porous substrates must be tested for moisture-vapor transmission prior to mortar applications. Not for sealing cracks under hydrostatic pressure at the time of application. Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure.

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Sikadur 31[®], SBA Normal Set

Segmental Bridge Adhesive, Normal Set High-modulus, high-strength, moisture tolerant, epoxy paste adhesive

Description	Sikadur 31, SBA is a unique high-modulus 2- component, moisture-tolerant, solvent-free, epoxy resin system available in three application temperature ranges. A unique high-modulus, structural adhesive for bonding hardened concrete to hardened concrete for segmental bridge construction. The mixed material has the consistency of paste and is a concrete gray color. It conforms to the current ASTM C-881, Type VI requirements, and ASBI guidelines.
Where to Use	 Structural bonding of post-tensioned precast concrete bridge segments.
	 Sealing joints between concrete segments.
	For use in segment-by-segment erection.
	 Supplied in three temperature grades to meet project requirements. (For cold weather condi- tions, refer to separate technical data sheet on Sikadur 31, SBA [20°-45°F].)
Advantages	 Moisture tolerant before, during and after cure.
	 High-modulus, high-strength, structural paste adhesive.
	Range of curing times to meet assembly and strength gain requirements.
	Easy to apply, non-sag paste for vertical applications.
	Excellent adhesion to concrete, steel and most construction materials.
	Convenient easy to mix ratios. A:B=2:1 by volume.
	 Color-coded components to ensure proper mixing control.
Coverage	Approximately 12 sq. ft./gal. or 36 sq. ft./3 gal. unit.
Packaging	3 gal. units.

Typical Data (*Material and curing conditions* @ 73°F (23°C) and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life	2 years in original, unopened containers.				
Storage Conditions	Store dry at 40°-95° (21°-24°C) before u	. ,	ondition m	aterial to 7	0°-75°F
Color	Concrete gray				
Consistency	Non-sag paste				
Product name Normal Set (40°-60°F) Normal Set (55°-95°F) Normal Set (80°-115°F)	Temp. Range 40°-60°F (4°-15° 55°-95°F (13°-38 80°-115°F (27°-4	C) 2 5°C) 2	:1 :1	:B by volur	ne
Property		ASTM	SBA NS	SBA NS	SBA NS

Property	ASTM C881 Spec.	SBA NS 40°- 60°F	SBA NS 55°- 95°F	SBA NS 80°-115°F
Pot life, 1 gal., min (ASTM C881)		~ 60	~ 60	~ 60
Compressive Strength, psi (ASTM D695)				
24 hr	2000	2000	2000	2000
48 hr	6000	6000	6000	6000
Open Time (ASTM C881) Contact Strength after open time, 2 day, psi	1 hour 1000	1 hour 1000	1 hour 1000	1 hour 1000
Bond strength, 2 day, psi (ASTM C882)	1000	1000	1000	1000
Heat deflection Temp., °F (ASTM D648)	<u>></u> 120	<u>></u> 120	<u>></u> 120	<u>></u> 120



How to Use Surface Preparation	Surface must be clean and sound. It may be dry or damp, but free of standing water and frost. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles, disinte- grated materials and any other contaminants.
Mixing	Pre-mix each component . Wear chemical resistant gloves and safety goggles. Mix all of Part 'A' with all of Part 'B'. Mix thoroughly for a minimum of 3 minutes with a low-speed (400-600 rpm) drill fitted with a mixing Sika paddle until a uniform gray color is achieved. Scrape down the sides of the mixing pail and ensure there are no streaks of unmixed epoxy before applying. Mix only that quantity which can be used within its pot life.
Application	Apply the neat mixed Sikadur 31, SBA to the concrete surface using a trowel, spatula or glove pro- tected hand; work into surface, especially if it is damp. Spread to a thickness of 1/8" (3 mm) to one face or 1/16" (1.5 mm) on both faces, depending upon project requirements. Segments must be post-tensioned within the open time of the epoxy.
Removal	Ventilate area. Confine spill. Collect with absorbent material, flush area with water. Dispose of in accordance with current, applicable local, state and federal regulations. Uncured material can be removed with approved solvent. Follow solvent manufacturer's instructions for use and warnings. Cured material (when combined with component 'B') can only be removed mechanically.
Limitations	 Do not thin Sikadur 31, SBA. Solvents will prevent proper cure. Use correct temperature range material for prevailing conditions. Use correct setting material (normal or slow) depending on method of erection. Not for use as an adhesive for fresh, plastic portland cement concrete or mortar. Lower temperatures will prolong cure time. Higher temperatures will rapidly accelerate cure time. Use of product outside of designated temperature range is not recommended. Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure.

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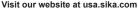
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Sikadur[®] 31, SBA Slow-Set

Segmental Bridge Adhesive High-modulus, high-strength, moisture tolerant, epoxy paste adhesive

Description	Sikadur [®] 31, SBASlow-Set is a unique high-modulus 2-component, moisture-tolerant, solvent-free, epoxy-resin system available in three application temperature ranges. A unique high-modulus, structural adhesive for bonding hardened concrete to hardened concrete for segmental bridge construction. The mixed material has the consistency of paste and is a concrete gray color. If conforms to the current ASTM C-881, Type VII requirements, and ASBI guidelines.					
Where to Use	 Structural bonding of post-tensioned precast concrete bridge segments. Sealing joints between concrete segments. Slow-set version for span-by-span erection. Supplied in three temperature grades to meet project requirements. 					
Advantages	 Moisture tolerant before, during and after cure. High-modulus, high-strength, structural paste adhesive. Range of curing times to meet assembly and strength gain requirements. Easy to apply, non-sag paste for vertical applications. Excellent adhesion to concrete, steel and most construction materials. Convenient easy to mix ratios. Color-coded components to ensure proper mixing control. 					
Coverage	Approximately 12 ft ² /gal.	or 36 ft²/3 gal. unit				
Packaging	3 gal. units.	3 gal. units.				
	TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.Shelf Life2 years in original, unopened containers.Storage ConditionsStore dry at 40°-95°F (4°-35°C). Condition material to 70°-75°F (21°-24°C) before using.ColorConcrete gray.ConsistencyNon-sag paste.Product NameTemp. RangeMix Ratio, A:B by VolumeSlow Set (40°-61°F)40°-61°F (4°-16°C)2:1Slow Set (55°-75°F)55°-75°F (13°-24°C)2:1Slow Set (70°-90°F)70°-90°F (21°-32°C)2:1					
	Property		ASTM C881 Spec.	SBA SS 40°- 61°F	SBA SS 55°-75°F	SBA SS 70°-90°F
	Pot life, 1 gal., hrs (AST	M C881)	-	~ 2	~ 2	~ 2
	Compressive Strength, p	osi (ASTM D695)				
		36 hr	1000	1800	3000	6400
		72 hr	2000	4500	6500	9000
	Open Time (ASTM C881 Contact Strength after op	ben time, 14 day, psi	8 hours 1000	8 hours 1500	8 hours 2000	8 hours 1500
	Bond strength, 14 day, ps	· /	1000	1800	2000	2300
	Heat deflection Temp., °F	F (ASTM D648)	120	122	124	124



How to Use	
Surface Preparation	Surface must be clean and sound. It may be dry or damp, but free of standing water and frost. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles, disintegrated materials and any other contaminants.
Mixing	Pre-mix each component. Wear chemical resistant gloves and safety goggles. Mix all of Part 'A' with all of Part 'B'. Mix thoroughly for a minimum of 3 minutes with a low-speed (400-600 rpm) drill fitted with a mixing Jiffy paddle until a uniform gray color is achieved. Scrape dowr the sides of the mixing pail and ensure there are no streaks of unmixed epoxy before applying. Mix only that quantity which can be used within its pot life.
Application	Apply the neat mixed Sikadur [®] 31, SBA Slow-Set to the concrete surface using a trowel, spatula. or glove protected hand; work into surface especially if it is damp. Spread to a thickness of 1/8' (3 mm) to one face or 1/16" (1.5 mm) on both faces, depending upon project requirements. Segments must be post-tensioned within the open time of the epoxy.
Limitations	 Do not thin Sikadur[®] 31, SBA Slow-Set. Solvents will prevent proper cure. Use correct temperature range material for prevailing conditions. Use correct setting material (normal or slow) depending upon method of erection. Not for use as an adhesive for fresh, plastic, portland cement concrete or mortar. Lower temperatures will prolong cure time. Higher temperatures will rapidly accelerate cure time. Use of product outside of designated temperature range is not recommended. Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure.

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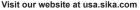
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Sikadur[®] 21, Lo-Mod LV

Low-modulus, low-viscosity, epoxy resin binder

escription		Sikadur [®] 21, Lo-Mod LV, is a 2-component, 100% solids, moisture-tolerant, epoxy resin binder. It conforms to the current ASTM C-881 Type II, Grade 1, Class B & C and AASHTO M-235 specifications.				
here to Use	Use as a binder for ep	oxy mortar for patching and o	verlays.			
lvantages	 Convenient easy m Excellent strength o Low viscosity gives 	 Tolerant to moisture both before and after cure. Convenient easy mix ratio A:B = 1:1 by volume. Excellent strength development. Low viscosity gives you easy handling, high-yield epoxy mortar. Material is USDA-certifiable for incidental food contact. 				
overage	Mortar Binder - 1 gal	Prime Coat - approximately 200-250 ft ² /gal. Mortar Binder - 1 gal. of mixed Sikadur [®] 21, Lo-Mod LV with the addition of 6 parts by loose volume of an oven-dried sand, yields approximately 924 in ³ .				
ckaging		art A of the Sikadur 22 Lo-N ponent of these three prod		and Sikadur 21 Lo-Mod		
	Typical Data (Materi	al and curing conditions @	73°F (23°C) and 50% R.H.)			
		SED UPON STATISTICAL VARIATION FION METHODS, TEST METHODS, AG				
	Shelf Life	2 years in original, unopen	ed containers.			
	Storage Conditions	Store dry at 40°-95°F (4°-3 before using.	5°C). Condition material to	65°-85°F (18°-29°C)		
	Color	Clear, amber.				
	Mixing Ratio	Component 'A':Component	t 'B' = 1:1 by volume.			
	Viscosity	Approximately 1,000 cps.				
	Pot Life					
	Tack-Free Time	Approximately 25 minutes. (200 gram mass) Approximately 3 hours; @ 90°F (32°C) Approximately 2 hours				
		Traffic Time 4-5 hours.				
	Tensile Properties (ASTM D-638) MORTAR 1:6 NEAT					
	14 day Tensi Elong	le Strength jation at Break ilus of Elasticity	1,300 psi (8.9 MPa) 0.2 % 6.6 x 10 ⁵ psi (4,551 MPa)	5,800 psi (40.0 MPa) 5.5 % 1.43 x 10 ⁵ psi (986 MPa)		
	-	Strength (Modulus of Rupture)		<u>NEAT</u> 9,600 psi (66.2 MPa)		
	Shear Strength (AS		1.2 x 10 ⁶ psi (8,274 MPa) <u>MORTAR 1:6</u>	2.98 x 10⁵ psi (2,055 MPa <u>NEAT</u>		
	14 day Shea Water Absorption (A	r Strength	2,000 psi (13.7 MPa)	5,670 psi (39 MPa) NEAT		
		r immersion)		0.26%		
	2 day (dry	M C-882): Hardened concrecure)Bond Strengthst cure)Bond Strength	1,100 psi (7.5 MPa			
	Abrasion (Taber Ab	rader) ht loss, 1,000 cycles (H-22 wł	neel: 1.000 am. weight)	<u>MORTAR 1:6</u> 4.1 gm		
		rties (ASTM C-579) Compre		0		
		Mortar 1:6	(ASTM D-695)			
		(4°C) 73°F*(23°C)		73°F (23°C) NEAT		
	4 hour - 8 hour -	- 400 (2.7)	500 (3.4) 2,200 (15.1)	-		
	16 hour 20 (0	. ,		116 (0.80)		
	1 day 40 (0	, , , , , , , , , , , , , , , , , , , ,		1,900 (13.1)		
		(9.6) 4,900 (33.7)		6,700 (46.2)		
	•	(24.1) 5,400 (37.2)		9,000 (62.1)		
		0 (31.0) 6,000 (41.3) 0 (31.7) 6,100 (42.0)		9,100 (62.7) 9,200 (63.4)		
	20 uay 4,000	0,100 (42.0)	0,200 (42.7)	3,200 (03.4)		



	Compressive Modulus	MORTAR	NEAT			
	28 day	7.6 x 10⁵ psi (5,240 MPa)	2.58 x 10⁵ psi (1,779 MPa)			
	* Material cured and tested at the temperatures indi	cated.				
How to Use						
Surface Preparation	Surface must be clean and sound. It may be dry or damp, but free of standing water. Remove dust, laitance, grease, curing compounds, impregnations, waxes and any other contaminants.					
	Preparation Work:					
	Concrete - Should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by blast cleaning or equivalent mechanical means.					
	Steel - Should be cleaned and prepared thoroughly by blast cleaning to white metal finish.					
Mixing	Proportion equal parts by volume of Component 'A' and 'B' into clean pail. Mix thoroughly for 3 min. with Sika paddle on low-speed (400-600 rpm) drill until uniformly blended. Mix only that quantity that can be used within pot life.					
	To prepare epoxy mortar - Slowly add mixed Sikadur® 21, Lo-Mod LV. Mix unti	1	ven-dried sand aggregate to 1 part of			
Application	Epoxy Mortar - Prime prepared surface vibrating screed while primer is still tack		od LV. Apply epoxy mortar by trowel or			
Limitations	 Minimum substrate and ambient tem Porous substrates must be tested fo D-4263). Minimum age of concerts before and 	r moisture-vapor transmission				
	 Do not apply to exterior slab on grad 	, , , , , , , , , , , , , , , , , , ,	ng upon curing and drying conditions.			
	 Maximum application thickness on e Do not dilute. Addition of solvents wi 	xterior substrates exposed to t	hermal change is 1/2 in (13 mm).			
	Use oven-dried aggregates only.Material is a vapor barrier after cure.					
	 Not an aesthetic product. Color may 		ng and/or UV exposure.			

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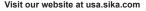
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Sika and Sikadur are registered trademarks. Printed in Canada. C400 Product Data Sheet Edition 6.27.2016 Sikadur® 22, Lo-Mod

Sikadur[®] 22, Lo-Mod

Low-modulus, medium-viscosity, epoxy resin binder

ption	Sikadur [®] 22, Lo-Mod is a 2-component, 100% solids, moisture-tolerant, epoxy resin binder. It conforms to the current ASTM C-881, Type III, Grade-2, Class-C and AASHTO M-235 specifications.						
to Use			er resin for a sk or patching and			ast overlay. Use	also as the binder resin for epox
tages	 Tolerant to moisture both before and after cure. Convenient easy mix ratio A:B = 1:1 by volume. Excellent strength development. Leveling viscosity for easy, efficient application of a broadcast overlay. Material is USDA-certifiable. 						
age	1 gal. yields 23	31 in ³					
0	Mortar Binder - 1 gal. of mixed Sikadur [®] 22 Lo-Mod with the addition of 5 gal. by loose volume of an oven dried sand, yields approximately 808 in ³ of epoxy mortar.						
ging							adur 22 Lo-Mod, Sikadur 22 Lo- e three products.
	Typical Dat	a [Mate	rial and curing	cond	itions @ 73°	F (23°C) and 50	0% R.H.]
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.						
	Shelf Life 2 years in original, unopened containers.						
	Storage Cond	itions	Store dry at 40°-95°F (4°-35°C). Condition material to 65°-85°F (18°-29°C) before using				
	Color		Clear to light amber.				
	Mixing Ratio		Component 'A':Component 'B' = 1:1 by volume.				
	Viscosity	Approximately 2,000 cps.					
	Pot Life	t Life Approximately 30 minutes (200 gram mass).					
	Tack-Free Tim	е	40°F (4°C) 24 hours	73°F 5 ho	; (23°C) urs	90°F (32°C) 2.5 hours	
	Traffic Time		6-8 hours				
	Tensile Proper 14 day	Tensile Elonga Modulu	STM D-638) Strength tion at Break is of Elasticity ested @ 0.5 in/i	min.)	Mortar 1:3 2,200 psi (1 - 4.78 x 10 ⁵ p	,	Neat 5,700 psi (39.3 MPa) >30 % 1.9 x 10⁵ psi (1,310 MPa)
	Tensile Streng		-	,	Mortar 1:3		Neat
	14 day		in 6667,		1400 psi (9	7MPa)	2800 psi (19.3 MPa)
	Shear Strengt	•	I D-732) Strength		Mortar 1:3 3,000 psi (2		Neat 5,700 psi (37.2 MPa)
	Water Absorpt 7 day	tion (AS	U			,	Neat 0.26 %
	Direct Tensile 7 day	(ASTM	C-1503; ACI 50)3):	Mortar 1:3 510 psi cor		Neat 570 psi concrete fail
	Abrasion (Tab 14 day	Weight	der) loss, 1,000 cyc <i>v</i> heel; 1,000 gm		Mortar 1:3 Neat 1.8 gm .030 gm		



	Compressive Properties (ASTM D-695) Mortar 1:3						
	8 hour 16 hour 1 day 3 day 7 day 14 day 28 day Compressive Mo 28 day	rength, psi (MPa) 40°F* (4°C) - 2,200 (15.2) 6,500 (44.8) 7,900 (59.5) 8,800 (60.7) 9,500 (65.5) odulus 6.6 x 10 ⁴ psi (455 sted at the temperatures indicated	,	90°F* (32°C) 2,800 (19.3) 5,000 (34.5) 5,200 (35.9) 5,900 (40.7) 6,100 (42.1) 6,100 (42.1)	73°F* (23°C) NEAT - 480 (3.3) 2,200 (15.2) 3,400 (23.4) 3,400 (23.4) 3,400 (23.4)		
How to Use							
Surface Preparation		clean and sound. It may ompounds, impregnations			ter. Remove dust, laitance,		
	Preparation Wo	Preparation Work: Concrete - Should be cleaned and prepared to achieve a laitance and contaminant free,					
	·	open textured surface (CSP 3-4 as per ICRI) by blast cleaning or equivalent mechanical means. Steel - Should be cleaned and prepared thoroughly by blast cleaning to white metal finish.					
Mixing		• •	0, , ,	0	ly for 3 min. with Sika paddle		
-		0-600 rpm) drill until unifor	,		•		
		x y mortar - Slowly add 5 p uniform in consistency.	parts by loose volum	e of oven-dried sand	to 1 part of mixed Sikadur®		
Application	Broadcast Overlay - Prime the prepared substrate with Sikadur® 22 Lo-Mod. While primer is still tacky, spread mixed Sikadur® 22 Lo-Mod with a 3/16 in. notched squeegee. When material levels, broadcast the oven-dried aggregate slowly allowing it to settle in the epoxy binder. Ultimately the broadcast aggregate should be applied to excess at a rate of 2 lbs./ft ² Remove excess broadcast aggregate after epoxy has set. Priming is an optional step in the broadcast overlay applications.						
	Epoxy Mortar - Prime prepared substrate with mixed Sikadur [®] 22 Lo-Mod or Sikadur [®] 21 Lo Mod LV. While primer is still tacky, apply epoxy mortar by trowel or vibrating screed. Finish with finishing trowel. Priming is mandatory when using the 22 Lo Mod as an epoxy mortar.						
Limitations	 Minimum substrate and ambient temperature 40°F (4°C). For on grade, split-slab and unvented metal pan deck, please consult Sika Technical Service regarding moisture limitations. Minimum age of concrete before application is 21-28 days depending upon curing and drying conditions. Do not use on exterior slab on grade. Maximum thickness 1/2 in. (13 mm) exterior exposed to thermal change. Do not dilute. Addition of solvents will prevent proper cure. Use oven-dried aggregates only. Material is a vapor barrier after cure. Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure. 						

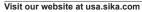
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Sikadur[®] Epoxy Broadcast Overlay System

Description	Sikadur Epoxy Broadcast Overlay System is a 2-component, moisture-tolerant, 100% solids epoxy resin binder for a traffic-bearing, skid-resistant, seamless, protective, overlay system for application by the broadcast method. The Sikadur Epoxy Broadcast Overlay System uses Sikadur 22 Lo-Mod as the binder coat. Sikadur				
	Epoxy Broadcast overlay System can be used with and without a primer as needed. The system conforms to the current ASTM C-881 and AASHTO M-235 specifications.				
Where to Use			g structures, ramps and interior applications lay with long-term durability and perfor-		
	RESULTS MAY DIFFER BASE	rial and curing conditions @ 73° D UPON STATISTICAL VARIATIONS DEPENDIN N METHODS, TEST METHODS, ACTUAL SITE	IG UPON MIXING METHODS AND EQUIPMENT,		
	Shelf Life	2 years in original, unopened con	tainers		
	Storage Conditions		ondition material to 65°-85°F (18-29°C)		
	Color	Clear, light amber.			
	Mixing Ratio	Component 'A' : Component 'B' 1	:1 by volume.		
	Viscosity (Mixed)	Approximately 2,500 cps.			
	Pot Life	Approximately 30 minutes (200 gr	ram mass)		
	Tack-Free Time	40°F (4°C): 21 hrs. 73°F (23	3°C): 4 hrs. 90°F (32°C): 2 hrs.		
	Open Time	Light foot traffic: 4-6 hrs. Rubber-	-wheel traffic: 8-10 hrs.		
	Tensile Properties (A		Broadcast 1:2.25		
		Strength ion at Break	2,200 psi (15.2 MPa) 1.1%		
	0	s of Elasticity	4.7 x 10⁵psi (3,240 MPa)		
	Flexural Properties (A				
		Strength (Modulus of Rupture)	4,300 psi (29.7 MPa) 9.0 x 10⁵psi (6,205 MPa)		
	Shear Strength (ASTI		3,300 psi (22.7 MPa)		
	• •	I C-882): Hardened Concrete to F			
	2 day (dry cure) 14 day (moist cure	Bond Strength	1,100 psi (7.5 MPa) 1,600 psi (11 MPa)		
		der) (H-22 wheel; 1,000 gm weight loss, 1,000 cycles 1.61 gm	t)		
	Compressive Propert Compressive Strengt	· · · · · ·			
	40°F* (4	Broadcast (1:2.25) I°C) 73°F* (23°C) 90°	²F* (32°C)		
	8 hour -		00 (24.1)		
	16 hour -	1,850 (12.8) 4.4	00 (30.3)		
	1 day 60 (0.4) 3 day 1,700 (1		00 (31.7)		
	3 day 1,700 (<i>1</i> 7 day 6,700 (<i>4</i>	, , , , , , , , , , , , , , , , , , , ,	00 (34.5) 00 (37.2)		
	14 day 8,400 (5	58.0) 7,800 (53.8) 5,9	00 (40.7)		
	28 day 8,450 (\$		00 (43.4)		
	Compressive Modulu		MPa) 28 day: 1.66 x 10⁵psi (1,145 MPa)		
	*Material cured and tested at the	temperatures indicated.			
			WAYS READ AND FOLLOW THE WARNINGS AND ATA SHEET, PRODUCT LABEL AND SAFETY DATA		

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RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

Advantages	 System is moisture-tolerant before, during, and after cure. Excellent adhesive properties to most substrates. Convenient, easy mix ratio A:B = 1:1 by volume. Superior, long-term abrasion resistance and durability even at elevated temperatures. Easy care, skid-resistant overlay for bridge decks, parking structures, ramps, loading docks, indu trial floors, etc. 				
Coverage	Prime coat: approximately 200-250 sq. ft./gal. Binder coat: approximately 32 sq. ft./gal. (50 mils) Broadcast aggregate: 2 lb./sq. ft. to excess. Seal coat: approximately 150-200 sq. ft. /gal.				
Packaging	Sikadur 22 Lo-Mod 4-gal. units.				
How to Use Surface Preparatio	Surface must be clean and sound. It may be dry or damp, but free of standing water. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles and disinte- grated materials. Preparation Work: Concrete - Sandblast or use other approved mechanical means. Steel - Should be cleaned and prepared thoroughly by blast cleaning.				
Mixing	Pre-mix each component. Proportion equal parts by volume of Components 'A' and 'B' into a clean mixing container. Mix with a low-speed (400-600 rpm) drill and Sika paddle for 3 minutes, until uniform. Mix only that quantity that can be used within its pot life.				
Application	Priming: Use of primer is optional but highly recommended. Primer should be used where sealing of non-moving existing cracks is desired. Sikadur 21 Lo-Mod LV or Sikadur 22 Lo-Mod can be used as primer coats. Prime the prepared substrate with neat Sikadur 21, Lo-Mod LV or Sikadur 22 Lo-Mod using a roller or flat squeegee. Coverage should be approximately 200-250 sq. ft./gal. Whit the primer is still tacky, apply the binder material with a 3/16 in. notched-rubber squeegee. Allow the binder to self-level.				
Cracks: Static (non-moving) cracks ≤1/8 in., gravity feed with an appropriate sealer/h Dynamic cracks ≥1/8 in. should be treated as joints and sealed with an appropriate jo Broadcast: Slowly broadcast an oven-dried sand so that the sand falls vertically into a rate of 2 lbs./sf). Other sources of aggregate may be used but must conform to the dation standard. Continue to broadcast lightly making several passes, allowing the bir through the sand before making next pass. Cover completely with sand before binder tack-free.					
	Typical gradation: Mesh 16 20 30 40 50 70 % 0-5 35-50 40-55 3.0-8.0 ≥1 ≥.75				
	Hardness: Mohs scale, min. ≥ 6 After broadcast system has reached sufficient cure as not to be damaged, remove excess sand (this will be dependent on material, air and substrate temperatures). After all excess sand has been removed apply a seal coat of neat Sikadur 22, Lo Mod** over the entire area. Care should be exercised to eliminate voids or bare spots. Sealer coat of Sikadur 22, Lo Mod may be applied at recommended coverage of 150-200 sq. ft./gal.) or to desired finish. Unless otherwise specified, a seal coat is optional, especially on surfaces where a reduction in skid resistance is not optimal (i.e. bridge decks, ramps). **Aliphatic urethanes or other compatible sealer coats may be used. Please contact Sika's Technical Service Department before use.				
	When applying multiple courses: The subsequent binder coat is applied to the preceding course after it has reached sufficient cure, so as not to be damaged and the excess broadcast aggregate has been removed. Note that the consumption and coverage rate of the additional binder coat will vary depending upon the type, size and gradation of the aggregate being used. A reduction factor of approximately 10-20% is customary.				
Limitations	 To avoid dew point conditions during application, relative humidity must be no more than 95% an substrate temperature must be at least 5°F (3°C) above measured dew point temperature. For on grade, split-slab and unvented metal pan deck, please consult Sika Technical Service regarding moisture limitations. Minimum substrate and ambient temperature 40°F (4°C). 				
	 Do not store materials outdoors exposed to sunlight for prolonged periods. Use properly graded, oven dried aggregates only. Do not apply over wet, glistening surface. Material is a vapor barrier after cure. Minimum age of concrete prior to application is 21-28 days, depending on curing and drying conditions. 				
	 Do not apply to exterior, on-grade substrates, unvented metal pan decks, split/sandwich slabs, or buried membrane conditions. Use oven-dried aggregate only. Do not thin with solvents. 				
IIII (IIII)	 Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure. Any repairs required to achieve a level surface must be performed prior to application (consult a OR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND AND FOLLOW THE WARNINGS AND AND FOLLOW THE WARNINGS AND AND FOLLOW THE WARNINGS AND AND AND AND AND AND AND AND AND AND				
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Sika representative for guidance on various product solutions). Surface irregularities may reflect through the cured system.

- Do not apply to a porous or damp surface where moisture vapor transmission will occur during application and cure.
- Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Do not
 proceed if rain is imminent within 8-12 hours of application. Allow sufficient time for the substrate
 to dry after rain or inclement weather as there is the potential for bonding problems.
- When applying over existing coatings, compatibility and adhesion testing is recommended.
- Opening prior to final cure may result in loss of aggregate, or permanent staining and subsequent premature failure.
- Vehicle fluids and some high performance tires can stain the coating. Fluid spills should be removed promptly as the coating can in some cases be damaged from prolonged exposure.

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SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.

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Sikadur[®] 22 Lo-Mod FS

Low-modulus, fast setting, medium-viscosity, epoxy resin binder

Description	,	FS is a 2-component, 7 ent ASTM C-881 and A	,	, 0	epoxy resin binder. It	
Where to Use	Use neat as the bind	Use neat as the binder resin for a skid-resistant broadcast overlay. Use also as the binder resin for epoxy mortar and concrete for patching and overlays.				
Advantages	 Fast Setting for quick turn around. Meets 3 hr/1000 psi requirement when mixed as an epoxy mortar. Tolerant to moisture both before and after cure. Convenient easy mix ratio A:B = 1:1 by volume. Excellent strength development. Leveling viscosity for easy, efficient application of a broadcast overlay. Successfully used in HFST applications. Refer to local DOT specs. for product acceptance. 					
Coverage	1 gal. yields 231 in ³	1 gal. yields 231 in ³				
	0	of mixed Sikadur [®] 22 proximately 808 cu. in.		ddition of 5 gal. by loc	ose volume of an oven	
Cure Mechanism	Chemical.					
Packaging		llon unit / 660 gallon to 21 Lo-Mod LV is a ur				
How to Use						
	Typical Data [Mate	erial and curing cond	itions @ 73°F (23°C)	and 50% R.H.]		
		ED UPON STATISTICAL VAR ON METHODS, TEST METHO				
	Shelf Life Storage Conditions Condition material Color Mixing Ratio VOC: Viscosity	2 years in original, ur Store dry at 40°-95°F 65°-85°F (18°-29°C) b Clear to light amber. Component 'A':Comp <20 g/L Approximately 2,000	(4 [°] -35°C). efore using. oonent 'B' = 1:1 by vol cps.			
	Pot Life	Approximately 15-20	minutes (60 gram ma	ass; ASTM C881).		
	Tack-Free Time Traffic Time		40°F (4°C) 150 min. 8 hours	73°F (23°C) 85 min. 3 hours	90°F (32°C) 75 min. 2 hours	
	Tensile Properties (A 7 day Tensile Stre Elongation at Bre	ength, psi	Mortar 1:3 1200 40%	Neat 2650 55%		
	Shear Strength (AST 7 day Shear Stren	,	2600	3430		
	Water Absorption (AS 7 day (24 hour im			<0.20%		
	Abrasion (Taber Abra 14 day Weight loss, 1 (H-22 wheel; 1,000 gr C-17 wheel, 1,000 gr	,000 cycles, grams n weight for mortar/	2.0	0.030		
	Hardness (ASTM D-2	,		72		
	Rapid Chloride Perme	ability (AASHTO T-277))	0 coulombs		
	Direct Pull Off Bond (ASTM C1583; ACI 50					
	1 day 7 day			>550 psi (concr >570 psi (concr		
	RIOR TO EACH USE OF AN STRUCTIONS ON THE PRO	ODUCT'S MOST CURRE	NT PRODUCT DATA S	READ AND FOLLOW	THE WARNINGS AND EL AND SAFETY DATA	
	IEET WHICH ARE AVAILAE RTMENT AT 800.933.7452					



JUNIAINED IN ANY SIKA WATERIAI THE TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

		ity (ASTM C884)		Pass			
	Compressive Stren	gth (ASTM C-579), psi	40°F* (4°C)	73°F * (23°C)	90°F* (32°C)		
	3 hour		40 F (4 C) -	1750 psi	3600 psi		
	8 hour		2000 psi	4400 psi	6400 psi		
	1 day		4500 psi	6500 psi	8000 psi		
	3 day		5500 psi	7500 psi	8500 psi		
	7 day 14 day		8500 psi 9000 psi	8500 psi 9000 psi	9000 psi 9000 psi		
	28 day		9000 psi	9000 psi	9000 psi		
	Compressive Medu	lue					
	Compressive Modu 7 day	ius		40,000 psi			
	28 day			40,000 psi			
	* Material cured and	I tested at the tempera	tures indicated.				
Surface Preparation	grease, curing comp Preparation Work:	an and sound. It may be ounds, impregnations, v Concrete - Should be cl the by blast cleaning or e	vaxes and any other c eaned and prepared t	ontaminants. o achieve a laitance			
	•	eaned and prepared tho	•		ish		
Mixing		component. Proportion e					
WIXINg	thoroughly for 3 min. w that can be used with	vith Sika paddle on low-sp in pot life.	eed (400-600 rpm) drill	until uniformly blende	d. Mix only that quant		
		nortar - Slowly add 5 pa			•		
Application	Broadcast Overlay - Prime the prepared substrate with Sikadur 22 Lo-Mod FS. While prime is still tacky, spread mixed Sikadur 22 Lo-Mod FS with a 3/16 in. notched squeegee. When ma terial levels, broadcast the oven-dried aggregate slowly allowing it to settle in the epoxy bind er. Ultimately the broadcast aggregate should be applied to excess at a rate of 2 lbs./sq. fit						
	Remove excess broadcast aggregate after epoxy has set. Priming is an optional step in the broadcast overlag applications.						
		ne prepared substrate w vel or vibrating screed. F epoxy mortar.					
	moisture limitation Maximum thickne Do not dilute. Ado Use oven-dried a Material is a vapo Not an aesthetic	ss 1/2 in. (13 mm) exter lition of solvents will pre ggregates only.	ior exposed to therma vent proper cure. due to variations in lig	l change. hting and/or UV exp	osure.		
	PRIOR TO EACH USE OF INSTRUCTIONS ON THE P SHEET WHICH ARE AVAIL PARTMENT AT 800.933.745 TO READ AND FOLLOW TH RENT PRODUCT DATA SHI	RODUCT'S MOST CURRE ABLE ONLINE AT HTTP:// 2 NOTHING CONTAINED I 1E WARNINGS AND INSTI 1ET, PRODUCT LABEL AN	ENT PRODUCT DATA SI USA.SIKA.COM/ OR BY N ANY SIKA MATERIAL: RUCTIONS FOR EACH S ID SAFETY DATA SHEE	HEET, PRODUCT LAB CALLING SIKA'S TEC S RELIEVES THE USE SIKA PRODUCT AS SE T PRIOR TO PRODUC	EL AND SAFETY DA CHNICAL SERVICE E R OF THE OBLIGATIO T FORTH IN THE CU T USE.		
	EEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY or further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the						
	icitial and the second and the registrang management of the second and the second						
F	ctual Safety Data Sheets contain	Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Produc Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart nent at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction or each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.					
F a b P D m f t	ctual Safety Data Sheets contain refore using the product. In case rior to each use of any Sika proc lata Sheet, product label and Sa nent at 800-933-7452. Nothing co or each Sika product as set fort	fety Data Sheet which are avai ntained in any Sika materials i	lable online at http://usa.sik elieves the user of the oblig	a.com/ or by calling Sika's ation to read and follow th	s Technical Service Dep		
F a b P D D m f f f S S t t B B S S T S	ctual Safety Data Sheets contain refore using the product. In case trior to each use of any Sika proc Jata Sheet, product label and Sa nent at 800-933-7452. Nothing cc or each Sika product as set forth roduct use. SIKA warrants this product for on the current Product Data Sheet if suyer's sole remedy shall be limit :XPRESS OR IMPLIED SHALL AN HALL NOT BE LIABLE UNDER A HE USE OF THIS PRODUCT IN A ALE OF SIKA PRODUCTS AR	fety Data Sheet which are avail ntained in any Sika materials i in the current Product Data i ne year from date of installatic used as directed within sheff i ed to the purchase price or reg PPLY INCLUDING ANY WARR& NY LEGAL THEORY FOR SPE WANNER TO INFRINGE ON ANY	lable online at http://usa.sik 'elieves the user of the oblig Sheet, product label and Sa n to be free from manufactu fe. User determines suitabii Jacement of product exclus INTY OF MERCHANTABILIT CIAL OR CONSEQUENTIAL (PATENT OR ANY OTHER IN	a.com/ or by calling Sika' lation to read and follow th fety Data Sheet prior to uring defects and to meet ity of product for intendec tive of labor or cost of labo Y OR FITNESS FOR A PAR DAMAGES. SIKA SHALL N DAMAGES. SIKA SHALL N	s Technical Service Dep le warnings and instruct the technical properties use and assumes all ris . NO OTHER WARRANT TTICULAR PURPOSE. SI OT BE RESPONSIBLE F RIGHTS HELD BY OTHE!		
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Product Data Sheet Edition 2.2.2016 Sikadur[®] 25 Lo-Mod

Sikadur[°] 25 Lo-Mod

Description	Sikadur 25 Lo-Mod is a 2-component, 100% solids, moisture-tolerant, low viscosity, epoxy-urethane resin					
	binder. It conforms	to the current A	STM C-8	81, Type III	, Grade 1, Class-C spe	cifications.
Where to Use					dcast overlay or high ar and concrete for pa	friction surface on bridges or tching and overlays.
Advantages	 Convenient easy Excellent streng Leveling viscosi 	 Convenient easy mix ratio A:B = 1:1 by volume. Excellent strength development. Leveling viscosity for easy, efficient application of a broadcast overlay. 				
Coverage	1 gal. yields 231 cu. i Mortar Binder - 1 gal sand, yields approx	. of mixed Sikadı				y loose volume of an ovendried
Packaging	4 gallon units	4 gallon units				
	TEMPERATURE, APPLICA	SED UPON STATIST	ICAL VARI ST METHO	ATIONS DEP DS, ACTUAL	ENDING UPON MIXING MET SITE CONDITIONS AND CU	
	Shelf Life	2 years in origi			ners.	
	Storage Conditions Condition Material	Store dry at 40 65°- 85°F (18°-2				
	Color	Clear to light a		ie using.		
	Mixing Ratio	Component 'A'	:Compone	ent 'B' = 1:1	oy volume.	
	VOC	<50gm/L				
	Viscosity Pot Life	Approximately Approximately			ram mass;ASTM C881).	
	Tack-Free Time	40°F (4°C)	73°F (90°F (32°C)	
	lack-riee lille	40 F (4 C) 8 hours	2.5-3		2 hours	
	Traffic Time	24 hours	3.5 hc	ours	2.5 hours	
		TM D-638) le Strength _l ation at Break				Neat 3000 psi (20.7MPa) >30%
	Water Absorption (AS 7 day (24 h	TM D-570) our immersion)				Neat <0.20 %
	Abrasion (Taber Abrac 14 day Weig	ler) ht loss, 1,000 cycle	25	Mortar 1:3 2.0 gm H-22 whee	el; 1,000 gm weight	Neat .030 gm C-17 wheel; 1,000 gm weight
	Hardness (ASTM D-22	40)				Neat
	Chloride Permeability			0 coulomi	95	72
	Direct Pull Off Bond Tes 1 Day	t (ASTM C1583; AC	CI 503R)	Mortar 1:3 >550 psi (concrete failure)	
	Thermal Compatibility	(ASTM C884)			Pass	



Constru

	Compressive Properties (ASTM D-695)	Mortar 1:3				
	Compressive Strength, psi (MPa)	40°F* (4°C)	73°F * (23°C)	90°F* (32°C)		
	3 hour	2,000	800	3,600		
	8 hour 1 day	2,000 4,500	2,000 5,000	6,400 8,000		
	3 day	5,500	7,500	8,500		
	7 day	8,500	8,500	9,000		
	14 day	9,000	9,000	9,000		
	28 day	9,000	9,000	9,000		
	Compressive Modulus					
	7 day 40,000 psi 28 day 40,000 psi					
	* Material cured and tested at the temperatures indicated					
How to Use						
Surface Preparati	ion Surface must be clean and sound. It m grease, curing compounds, impregnat Preparation Work: Concrete - Should open textured surface by blastcleaning	tions, waxes and an be cleaned and pre	ly other contaminants pared to achieve a lait	s. ance and contaminant fre		
	prepared thoroughly by blastcleaning	or equivalent mech	anical means to whit	e metal finish.		
Mixing	Pre-mix each component. Take care as premixing of unfilled resins may entrain excessive air. Proportion equal parts by volume of Component 'A' and 'B' into clean pail. Mix thoroughly for 3 min. with Sika paddle on low-speed (400-600 rpm) drill until uniformly blended. Mix only that quantity that can be used withir pot life. To prepare epoxy mortar - Slowly add 5 parts by loose volume of oven-dried sand to 1 part of mixed Sikadur 22 Lo-Mod until uniform in consistency.					
Application	Broadcast Overlay- Prime the prepa spread mixed Sikadur 25 Lo-Mod with oven-dried aggregate slowly allowing should be applied to excess at a rate of set. Priming is an optional step in the	red substrate with n a 3/16 in. notched it to settle in the e of 2 lbs./sq. ft. Ren	d squeegee. When ma poxy binder. Ultimate nove excess broadcast	aterial levels, broadcast t ly the broadcast aggrega		
	Epoxy Mortar - Prime prepared subst epoxy mortar by trowel or vibrating so the Sikadur 25 Lo Mod as an epoxy m	rate with mixed Sik reed. Finish with fi	adur 25 Lo-Mod. Whi			
Limitations	 Minimum substrate and ambien For on grade, split-slab and unvention moisture limitations. Minimum age of concrete before a conditions. Do not use on exterior slab on gra Maximum thickness 1/2 in. (13 mm Do not dilute. Addition of solvents Use oven-dried aggregates only. Material is a vapor barrier after cu Not an aesthetic product. Color m 	ted metal pan deck application is 21-28 de. n) exterior exposed s will prevent prope re.	x, please consult Sika days depending upon to thermal change. r cure.	curing and drying		
	PRIOR TO EACH USE OF ANY SIKA PRODUC INSTRUCTIONS ON THE PRODUCT'S MOST C SHEET WHICH ARE AVAILABLE ONLINE AT HT PARTMENT AT 800.933.7452 NOTHING CONTAIL TO READ AND FOLLOW THE WARNINGS AND RENT PRODUCT DATA SHEET, PRODUCT LABL	URRENT PRODUCT I TP://USA.SIKA.COM NED IN ANY SIKA MA INSTRUCTIONS FOR	DATA SHEET, PRODUC / OR BY CALLING SIKA TERIALS RELIEVES THI EACH SIKA PRODUCT	T LABEL AND SAFETY DA 'S TECHNICAL SERVICE D E USER OF THE OBLIGATIC AS SET FORTH IN THE CU		
	KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILI	DREN. NOT FOR INTERNAL CO	INSUMPTION. FOR INDUSTRIAL U	SE ONLY. FOR PROFESSIONAL USE ON		
	For further information and advice regarding transporta actual Safety Data Sheets containing physical, ecologica before using the product. In case of emergency, call CH	I, toxicological and othe	r safety related data. Read th	ne current actual Safety Data Sh		
	Prior to each use of any Sika product, the user must alwa Data Sheet, product label and Safety Data Sheet which a ment at 800-933-7452. Nothing contained in any Sika mat for each Sika product as set forth in the current Product product use.	re available online at http erials relieves the user o Data Sheet, product lab	b://usā.sika.com/ or by callir f the obligation to read and f el and Safety Data Sheet pr	g Sika's Technical Service Dep ollow the warnings and instruct ior to		
	SIKA warrants this product for one year from date of ins the current Product Data Sheet if used as directed within Buyer's sole remedy shall be limited to the purchase price EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY V SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FO THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE (SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TI CALLING 201-933-8800.	shelf life. User determine e or replacement of produ VARRANTY OF MERCHA R SPECIAL OR CONSEQ ON ANY PATENT OR ANY	es suitability of product for in ict exclusive of labor or cost NTABILITY OR FITNESS FO JENTIAL DAMAGES. SIKA S OTHER INTELLECTUAL PRO	ntended use and assumes all ris of labor. NO OTHER WARRANTI R A PARTICULAR PURPOSE. SI HALL NOT BE RESPONSIBLE F PERTY RIGHTS HELD BY OTHEI		
R	Visit our website at usa.sika.com			-SIKA NATIONWIDE		
	Regional Information and Sales Centers. For the local Sika Corporation 201 Polito Avenue 601 Delmar Avenue	Sika Mexi	a sales office, contact your cana S.A. de C.V. Libre Celaya Km. 8.5	regional center.		

Product Data Sheet Edition 2.24.2015 Sikadur Balcony System

Sikadur[®] Balcony System

Description	slip resistant, seamle Balcony System use and Sikalastic 748 P	ess, protective s Sikadur 21, A as the seale he Sikadur Ba	overlay system, ap Lo-Mod LV as the p r coat. The Sikadu	oplied by f orimer, Sił r Balcony	solvent free epoxy resin binder for the broadcast method. The Sikadur (adur 22, Lo-Mod as the binder coat, System can be used with or without e current ASTM C-881 and AASHTO
		ER BASED UPON	STATISTICAL VARIATION	NS DEPENDI	and 100% R.H.] NG UPON MIXING METHODS AND EQUIPMENT, CONDITIONS AND CURING CONDITIONS.
	Shelf Life	2 years in or	iginal, unopened co	ontainers.	
	Storage Conditions	Store dry at a before using		. Conditio	on material to 65°-85°F (18°-2°9C)
	Color	Depends on	aggregate selectio	n.	
	Mixing Ratios		A': Component 'B' _o-Mod; Sikalastic		ume for Sikadur 21, Lo-Mod LV and
	Viscosity (Mixed)		Sikadur 21, Lo-M 1,000 cp		Sikadur 22, Lo-Mod 2,500 cps
	Pot Life (200 g mass)		25 min.		30 min.
	Tack-Free Time		3 hrs.		4 hrs.
	Open Time		Light foot traffic: 2	24 hrs. aft	er final sealer coat.
	Compressive propert Compressive Strengt		Broadcast (1:2.2 73°F* (23°C)	25) 90°F* (3	
	8 hour 16 hour 1 day 3 day	- - 60 (0.41) 1,700 (11.7)	70 (0.48) 1,850 (12.8) 3,150 (21.7) 6,900 (47.6)	3,500 (2 4,400 (3 4,600 (3 5,000 (3	0.3) 1.7)
	7 day 14 day 28 day	6,700 (46.2) 8,400 (58.0) 8,450 (58.3)	7,500 (51.7) 7,800 (53.8) 7,850 (54.1)	5,400 (3 5,900 (4 6,300 (4	7.2) 0.7)
	*Material cured and tested at the Compressive Modulu Tensile Properties of	s 7 day:	1.25 x 10⁵ psi (862		28 day: 1.66 x 10 ⁵ psi (1,145 MPa)
	14 day		Tensile Stre Elongation a Modulus of	at Break	2,200 psi (15.2 MPa) 1.1% 4.7 x 10⁵ psi (3,240 MPa)
		Strength (Mo	Lo-Mod (ASTM D- dulus of Rupture) lasticity in Bending	. 4	-,300 psi (29.7 MPa) 9.0 x 10⁵ psi(6,205 MPa)
	Shear Strength (AST	VI D-732) 14 d	ау	3	3,300 psi (22.8 MPa)
	Bond Strength (ASTM 2 day (dry cure) 14 day (moist cure		ened Concrete to 1,100 psi (7.5 MP 1,600 psi (11.0 M	Pa)	d Concrete
	Abrasion (Taber Abra	der) (H-22 wh	eel; 1,000 gm weig	ght)	
		loss, 1,000 cy	-		
	Water Absorption Nea 14 day (24 hou	at (ASTM D-5 r immersion)	70) 0.23%		
					EAD AND FOLLOW THE WARNINGS AND ET, PRODUCT LABEL AND SAFETY DATA



Where to Use	Use for interior or exterior, above grade application requiring a protective, decorative, abrasion- and slip-resistant overlay with long-term durability and performance.
Advantages	 System is moisture tolerant before, during and after cure. Excellent adhesion to most substrates. Convenient, easy mix A:B 1:1 ratio by volume for Sikadur 21 Lo-Mod LV and Sikadur 22 Lo-Mod. Superior, long-term abrasion resistance and durability. Easy care, slip-resistant overlay for balconies. Can be combined with solid or blended colored aggregates for large color selection.
Coverage	Prime coat: 200-250 sq. ft./gal. Binder coat: 80-100 sq. ft./gal. (15-20 mils). Broadcast aggregate: 0.5 lbs./sq. ft. Sealer coat: 65-75 sq. ft./gal. Allowance must be made for surface profile, unavoidable variations in application thickness, loss and waste.
Packaging	Sikadur 21, Lo-Mod LV - 4 gal. units. Sikadur 22, Lo-Mod - 4 gal. units. Sikalastic 748 PA - 4 gal. units.
How to Use Surface Preparati	 Surface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds, impregnations, waxes, foreign particles and disintegrated materials or any bond breaking materials. Preparation Work: Concrete-Should be cleaned and prepared to achieve a laitance and contaminant-free, open textured surface by blastcleaning or equivalent mechanical means. All projections, rough spots, etc. should repaired to achieve a uniform surface prior to the application. Surface should be level for best cosmetic finish.
Mixing	Sikadur 21 Lo-Mod LV & Sikadur 22 Lo-Mod: Pre-mix each component. Proportion equal parts by volume of Component 'A' and 'B' into a clean mixing container. Mix with a low-speed (400-600 rpm) drill and Sika paddle for 3 minutes, until uniform. Mix only that quantity that can be used within its pot life. Do not whip in air during mixing.
Application	 Priming: Use of primer is optional but highly recommended. Primer should be used where sealing of non-moving existing cracks is desired. Prime the prepared substrate with neat Sikadur 21, Lo-Mod LV, using a roller. Coverage should be 200-250 sq. ft./gal. While the primer is still tacky, apply the binder material with a roller to approximately 80-100 sq. ft./gal. (15-20 mils) or to desired thickness. Cracks: Static (non-moving) cracks ≤1/8 in. wide gravity feed with an appropriate sealer healer ma-
	terial. Dynamic cracks ≥1/8 in. should be treated as joints and sealed with appropriate joint sealant. Broadcast: Slowly broadcast oven-dried colored aggregate* so that the sand falls vertically and uni- formly into the binder coat (at a rate of 0.5 lbs./sf). (Sources of aggregate must conform to Sika requirements for broadcast aggregate; please contact our Technical Service Department.) (Broadcast Quartz Blends from Sika can also be considered.) Continue to broadcast lightly mak- ing several passes, allowing the binder to bleed through the sand before making next pass. Cover completely with sand before binder becomes tack-free. *Typical Gradation
	Mesh 20 30 40 50 70 % 9 12.4 54 22 1.9 After broadcast system has reached sufficient cure as not to be damaged (this will be dependent on material, air, and substrate temperatures), remove excess sand. Seal Coat: After all excess sand has been removed apply a roller seal coat of Sikalastic 748 PA** over the entire area. Care should be exercised to eliminate voids or bare spots. Sealer coat of Sikalastic 748 PA may be applied at recommended coverage (75-125 sq. ft./gal.) or to desired finish; remove all excess with a clean, dry roller. Heavy seal coat will produce smoother but less slip resistant system. The type and size of the aggregate will influence the coverage.
Removal	 **Aliphatic urethanes or other compatible sealer coats may be used. Please contact Sika's Technical Service Department before use. Refer to the current Technical Data Sheet for Sikalastic 748 PA for additional application information. Collect with absorbent material; flush area with water. Dispose of in accordance with current, applicable local, state and federal regulations. Uncured material can be removed with approved solvent.
Limitations	 Cured material can only be removed mechanically. Minimum substrate temperature for application is 40°F (4°C) and rising. Do not apply over wet or damp surfaces. Material is a vapor barrier after cure. Do not apply to porous surfaces exhibiting moisture-vapor transmission during the application. Consult Technical Service. Minimum age of concrete prior to application is 21-28 days, depending on curing and drying conditions.
	 Refer to the current individual product Technical Data Sheets for Sikadur 21, Lo-Mod LV, Sikadur 22 Lo-Mod and Sikalastic 748 PA for application and use warnings. Do not apply to exterior, on-grade substrates. Use oven-dried, broadcast aggregate only. Do not thin with solvents. Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure.
	PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND NSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE- PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR- RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

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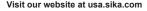
Sika Mexicana S.A. de C.V.

Fracc. Industrial Balvanera Corregidora, Queretaro

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C.P. 76920

Carretera Libre Celaya Km. 8.5



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C450

Sikagard[®] Duochem 7500

Chemical Resistant, Epoxy-Novolac Floor Coating, Topping or Containment Lining

escription		500 is a two-component, h outstanding resistance to s olvents.		
Vhere to Use	trated acids.	nical-resistant lining on condination in the second seco		-
	gressive chemicals		cs, plant noors and war	is exposed to ag-
		ild-up system to provide a s	slip resistant and durabl	e wearing surface
		s where aggressive chemic		o
dvantages	ratio.	ivenient to proportion, 2:1 b		
	up system incorpo			
		n 7500 provides a high buil against a wide range of ag		of protection for
	 Sikagard[®] Duochel and Compressive 	m 7500 exhibits excellent A Strength values.	dhesion, Hardness, Abr	asion Resistance,
	chemicals. See pro	de excellent protection for s oduct specific Chemical Res Technical Services.		
ackaging	3 gal. (11.34 l) unit			
overage	3 ()	r neat application; 80 ft²/ga	(2 m ² /l) for broadcast	application
	APPLICATION METHODS, TEST Packaging Color Yield Concrete Substra	METHODS, ACTUAL SITE CONDITIONS AND (3 US gal. (11.34 L) units RAL 7046 Tele Grey, RAL 3 tes Smooth Coating		
	Primer Coat	Sikadur [®] WDE Primer	160 ft²/US gal. (4 m²/L)	10 mils w.f.t.
	1st Coat	Sikagard [®] Duochem 7500	106 ft²/US gal. (2.6 m²/L)	15 mils w.f.t.
	2nd Coat	Sikagard [®] Duochem 7500	106 ft²/US gal. (2.6 m²/L)	15 mils w.f.t.
	Maximum build per coa	t for Sikagard [®] Duochem 7500 or	n vertical surfaces:	
		nay be required for the smooth coa	ating to be produced vertically.	
	Broadcast Build-Up Sys		400 (2/110	10
	Primer Coat Broadcast Coat	Sikadur [®] WDE Primer Sikagard [®] Duochem 7500	160 ft²/US gal. (4 m²/L) 80 ft²/US gal. (2 m²/L)	10 mils w.f.t. 20 mils w.f.t.
	Broadcast Coat		00 IE/05 0al. (Z IIE/L)	
	Aggregate	°		2011101111
	Aggregate	Oven dried silica sand	0.6 - 1 lb/ft ²	2011.001.000
	Aggregate	°		
	Aggregate	Oven dried silica sand #32 mesh (spherical)	0.6 - 1 lb/ft ²	
		Oven dried silica sand #32 mesh (spherical) 0.3 - 0.85 mm	0.6 - 1 lb/ft ² (3 - 5 kg/m ²)	
	Aggregate Top Coat	Oven dried silica sand #32 mesh (spherical) 0.3 - 0.85 mm or #16 mesh (angular) 0.6 - 2.0 mm Sikagard® Duochem	0.6 - 1 lb/ft ² (3 - 5 kg/m ²) 7500 80 - 106 ft ² /U	
		Oven dried silica sand #32 mesh (spherical) 0.3 - 0.85 mm or #16 mesh (angular) 0.6 - 2.0 mm	0.6 - 1 lb/ft ² (3 - 5 kg/m ²) 7500 80 - 106 ft ² /US (2 - 2.6 m ² /L)	
	Top Coat	Oven dried silica sand #32 mesh (spherical) 0.3 - 0.85 mm or #16 mesh (angular) 0.6 - 2.0 mm Sikagard® Duochem Colored or Clear	0.6 - 1 lb/ft ² (3 - 5 kg/m ²) 7500 80 - 106 ft ² /U	
	Top Coat Steel Substrates Smoo	Oven dried silica sand #32 mesh (spherical) 0.3 - 0.85 mm or #16 mesh (angular) 0.6 - 2.0 mm Sikagard® Duochem Colored or Clear	0.6 - 1 lb/ft ² (3 - 5 kg/m ²) 7500 80 - 106 ft ² /Us (2 - 2.6 m ² /L) 15 - 20 mils w.f.t.	S gal.
	Top Coat	Oven dried silica sand #32 mesh (spherical) 0.3 - 0.85 mm or #16 mesh (angular) 0.6 - 2.0 mm Sikagard® Duochem Colored or Clear	0.6 - 1 lb/ft ² (3 - 5 kg/m ²) 7500 80 - 106 ft ² /US (2 - 2.6 m ² /L) 15 - 20 mils w.f.t. 106 ft ² /US gal. (2.6 m ² /L)	
	Top Coat Steel Substrates Smoor 1st Coat	Oven dried silica sand #32 mesh (spherical) 0.3 - 0.85 mm or #16 mesh (angular) 0.6 - 2.0 mm Sikagard® Duochem Colored or Clear	0.6 - 1 lb/ft ² (3 - 5 kg/m ²) 7500 80 - 106 ft ² /Us (2 - 2.6 m ² /L) 15 - 20 mils w.f.t.	S gal.
	Top Coat Steel Substrates Smoor 1st Coat 2nd Coat	Oven dried silica sand #32 mesh (spherical) 0.3 - 0.85 mm or #16 mesh (angular) 0.6 - 2.0 mm Sikagard® Duochem Colored or Clear th Coating Sikagard® Duochem 7500 Sikagard® Duochem 7500	0.6 - 1 lb/ft ² (3 - 5 kg/m ²) 7500 80 - 106 ft ² /US (2 - 2.6 m ² /L) 15 - 20 mils w.f.t. 106 ft ² /US gal. (2.6 m ² /L) 106 ft ² /US gal. (2.6 m ² /L) 15 mils w.f.t.	S gal.
	Top Coat Steel Substrates Smoor 1st Coat 2nd Coat Maximum build per coa	Oven dried silica sand #32 mesh (spherical) 0.3 - 0.85 mm or #16 mesh (angular) 0.6 - 2.0 mm Sikagard® Duochem Colored or Clear th Coating Sikagard® Duochem 7500 Sikagard® Duochem 7500 Colored or Clear	0.6 - 1 lb/ft ² (3 - 5 kg/m ²) 7500 80 - 106 ft ² /US (2 - 2.6 m ² /L) 15 - 20 mils w.f.t. 106 ft ² /US gal. (2.6 m ² /L) 106 ft ² /US gal. (2.6 m ² /L) 15 mils w.f.t. n vertical surfaces:	5 gal. 15 mils w.f.t.
R	Top Coat Steel Substrates Smoor 1st Coat 2nd Coat Maximum build per coa	Oven dried silica sand #32 mesh (spherical) 0.3 - 0.85 mm or #16 mesh (angular) 0.6 - 2.0 mm Sikagard® Duochem Colored or Clear th Coating Sikagard® Duochem 7500 Sikagard® Duochem 7500 Colored or Clear t for Sikagard® Duochem 7500 or be required for the smooth coating	0.6 - 1 lb/ft ² (3 - 5 kg/m ²) 7500 80 - 106 ft ² /US (2 - 2.6 m ² /L) 15 - 20 mils w.f.t. 106 ft ² /US gal. (2.6 m ² /L) 106 ft ² /US gal. (2.6 m ² /L) 15 mils w.f.t. n vertical surfaces: finish to be produced vertically	S gal. 15 mils w.f.t.

TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-

RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

Broadcast Build-Up System						
Primer Coat	Sikagard® Du	ochem 7500	106 ft²/US	gal. (2.6	m²/L)	15 mils w.f.t.
Broadcast Coat	Sikagard® Du	ochem 7500	80 ft²/US g	gal. (2 m ²	/L)	20 mils w.f.t.
Aggregate	Oven dried s	ilica sand	0.6 - 1 lb/f	ť² (3 - 5 k	g/m²)	
	#32 mesh (sj	oherical)	0.3 - 0.85	mm		
	or #16 mesh	(angular)	0.6 - 2.0 m	nm		
Top Coat	Sikagard® Du	ochem 7500	80 - 106 ft	² /US gal.	(2 - 2.6 m ²	/L)
	Colored or C	lear	15 - 20 mi	ls w.f.t.		
For Optimum Chemical Resis	stance for all	Systems				
Optional 3rd / Sikagard® E	Duochem 7500	10	6 ft²/US gal	. (2.6 m²/	L)	
Barrier Coat (Clear)		15	mils w.f.t			
Actual coverage rates and mat must be also made for variation white) or bright colors (ie reds a correct coverage.	n in film thickn	ess or number o	of coats requ	uired to a	chieve opa	city with light (ie
Shelf Life	2 years wher	n stored in origir	nal, unopene	ed packag	ging.	
Store	dry at 41 - 90)°F (5 - 32°C).				
Condition		een 65 - 86°F (18 - 30°C) b	efore use	э.	
Mix Ratio	A:B= 2:1 by	volume				
Waiting Time Between Coats	at 23°C (73°F) Minimum	Dry to the To	ouch	Maxim	um 24 hours
Properties at 25°C (77°F) Solids Content						
	By volume		Ap	oprox. 95	%	
	By weight		Ap	oprox. 96	%	
Pot Life	8.8 oz (250 g	I)	Ap	oprox. 60	min	
Drying Times						
	Foot traffic		1 (day		
	Light traffic		2 (days		
	Full chemica	l resistance	7 (days		
Drying times will vary according	g to air and su	bstrate tempera	ture and hu	midity.		
Properties at 28 days		SMOOTH CO	ATING		BROADC	AST SYSTEM*
Tensile Strength ASTM D638	, Type IV	2,960 psi (20.	4 MPa)		1,595 psi (11.0 MPa)
Elongation at Break ASTM D	638, Type IV	28%			8.4%	
Compressive Strength ASTM	D695	8,380 psi (57.	8 MPa)		3,435 psi (23.7 MPa)
Water Absorption ASTM D57	0					
24 h		0.42%			0.11%	
7 days		1.02%			0.34%	
2 h boiling		-0.57%			-0.10%	
Bond Strength to Concrete A	STM D4541	406 psi (2.8 N	'		520 psi (3	,
		substrate failu	re		substrate f	ailure
Abrasion Resistance ASTM [
Taber Abraser, CS-17 and H-22	2 Wheels/	170 mg			833 mg **	
1000 g (2.2 lb)/1000 cycles		(CS-17)			(H-22)	
Impact Resistance ASTM D30	029					
Microscopic cracks		51.3 lb/in (5.8	'		15.2 lb/in (
Major cracks		54.8 lb/in (6.2	2 J)		91.9 lb/in (10.5 J)
Hardness (Shore D) ASTM D2		67			72	
Water Vapor Transmission A						
(Water method)		nr/ft² (0.19 g/hr/	m ²) 0.0		./hr/ft² (0.07	7 g/hr/m²)
W. (30 mils film			64 mils	s tilm	
Water Permeance ASTM E96						
(Water method)	0.48 perm			0.12 pe		
The second operation of the second second second second second second second second second second second second	30 mils film			64 mils	s film	
Thermal Compatibility with C					0.1	— . 1
ASTM C884 (from -23 to 23°C		Substrate Fail	ure		Substrate	Failure
Static Coefficient of Friction	ASTM C1028	0.75			1.00	
Dry surface		0.75			1.26	
Wet surface		0.55			0.94	
Linear Shrinkage ASTM C531		-			0.20	
Coefficient of Linear Thermal	Expansion				1.05 + 40	5/°E
ASTM C531, in/in/°F		-			1.25 x 10-	
cm/cm/°C	roodcoctin	-			2.26 x 10-	
*24 mesh silica sand used for b	bioaucasting.					

**Standard 4,060 psi (28 MPa) concrete exhibits 3,872 mg loss when tested as per this procedure.

***Failure occurs in underlying concrete.



How To Use	
Surface Preparation	Concrete: Concrete substrates must be clean and sound. Remove any dust, laitance, grease, oil, dirt, curing agents, impregnations, wax, foreign matter, coatings and any loose particles from the surface by appropriate mechanical means, in order to achieve a profile equivalent to ICRI CSP 3-4. The compressive strength of the concrete substrate should be at least 3,500 psi (24 MPa) at 28 days and at least 215 psi (1.5 MPa) in tension at the time of application of Sikadur [®] WDE Primer & Sikagard [®] Duochem 7500.
	Steel: All steel to be coated must be dry, clean and stable before applying the primer or coating. Remove all existing treatments such as coatings, sealers, wax, and contaminants (i.e. dirt, dust, grease, oils, and foreign matter) which will interfere with the adhesion of Sikagard [®] Duochem 7500. Prepare steel substrates by appropriate mechanical means such as abrasive blast-cleaning. Achieve clean white metal profile equivalent to SSPC-SP10, Near White Metal, 2 to 4 mils anchor profile. Apply primer or coating immediately, before oxidation of the steel occurs.
Mixing	Thoroughly pre-mix each component separately to ensure that all solids are distributed throughout and components are consistent within themselves. Empty the complete contents of Component B into the partially filled Component A container. When mixing a partial unit, ensure that the com- ponents are proportioned in the correct ratio and empty both into a suitably sized, clean mixing vessel.
	Mix the combined components for at least 3 minutes, using a low-speed drill (200-300 rpm) to minimize entrapping air. Use an Exomixer type or Jiffy mixing paddle (recommended model) suited to the volume of the mixing container. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once, to ensure complete mixing. When completely mixed, Sikagard [®] Duochem 7500 should be uniform in color and consistency. Mix only that quantity which can be used within its pot life.
	Never use a thickening agent such as Sikafloor [®] Extender T, Cabosil or any other filler to increase product viscosity as this will greatly reduce chemical resistance.
Application	Concrete:
	Smooth Coating:
	Primer Coat: Apply Sikadur [®] WDE Primer onto prepped concrete substrates using a brush, roller or squeegee to a uniform coverage without ponding. Refer to the current product data sheet for Sikadur [®] WDE Primer for published recommendations and further information.
	1st Coat: Once the primer is tack free apply Sikagard [®] Duochem 7500 using a brush, roller or squeegee to a uniform coverage without ponding.
	2nd Coat: Once first coat is tack free, apply a second coat of Sikagard [®] Duochem 7500 using a brush, roller or squeegee to a uniform coverage without ponding.
	Broadcast Build-Up System:
	Primer Coat: Apply Sikadur [®] WDE Primer onto prepped concrete substrates using a brush, roller or squeegee to a uniform coverage without ponding. Refer to the current product data sheet for Sikadur [®] WDE Primer for published recommendations and further information.
	Broadcast Coat: Once the primer is tack free apply the broadcast coat of Sikagard [®] Duochem 7500 using a notched squeegee or trowel and backroll to a uniform coverage. Broadcast the selected sand (shape and size to be selected in accordance with required texture/slip resistance) into the wet resin to rejection.
	Top Coat: Once the broadcast coat has sufficiently cured to allow foot traffic, sweep-up and vacuum-off all loose, unbounded sand. Apply the top coat of Sikagard [®] Duochem 7500 using a squeegee, followed by back rolling to provide a uniform texture and finish.
	Steel: Priming, consolidation or sealing of common steel substrates with Sikadur [®] WDE Primer is not usually required under typical circumstances. However, due to variations in steel quality, surface condition, surface preparation and ambient conditions, reference test areas are recommended to determine whether priming is required to prevent the possibility of issues with adhesion, compatibility, or other defects. Consult Sika Technical Services for advice.
	Application of Sikagard [®] Duochem 7500 onto properly prepared steel surfaces is typically the same procedure as outlined above for smooth coatings and broadcast build-up systems onto concrete, excluding the use of Sikadur [®] WDE primer, unless determined otherwise.
	See Typical Data section of this product data sheet above for coverage rates, specific application thicknesses and number of coats recommended.
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Limitations

- Sikagard[®] Duochem 7500, as a primary or secondary containment coating system, is best installed by skilled and experienced applicators. Consult Sika Technical Services for advice and recommendations.
- Not recommended for use on slab-on-grade concrete substrates.
- Minimum/Maximum substrate temperature; 59°F /86°F (15°C /30°C).
- Observe minimum application temperature of 15°C (59°F) and product conditioning temperatures of 65° - 86°F (18° - 30°C) as high viscosity coatings exhibit reduced smoothing properties and greater tendency to display application marks at low temperatures.
- Substrate temperature must be at least 5.5°F (3°C) above the measured dew point.
- Moisture content of concrete substrates must be < 6% (Tramex CME/CMExpert type con-crete moisture meter measurement) before application of Sikadur® WDE Primer other wise use Sikagard® 75 EpoCem as an initial barrier.
- Do not apply onto porous surfaces where moisture vapor transmission will occur during application.
- Maximum relative humidity during application and cure; 85%.
- Do not hand mix Sikagard® materials; mechanically mix only.
- Should maximum waiting time between coats be exceeded, abrade surface of applied material (removing all gloss) vacuum-off all dust and debris, and wipe with solvent. Allow solvent to completely flash off and dry before proceeding with subsequent coats.
- Protect from dampness, condensation and water contact during the initial 24 hour cure period (curing times will be lengthened at cold temperatures and protection should therefo remain for longer).
- Not recommended for areas subject to frequent thermal cycles.
- Surface may discolor in areas exposed to ultraviolet light.
- Not designed as an aesthetic product.

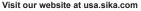
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SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PUPPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800



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RESPONSIBLE CARE



Sikagard[®] Duochem 7500 Thixo

Chemical-Resistant, Epoxy-Novolac-Based and Textured Floor Coating

Description	wall coating. It posse	esses outstanding resis . The integral, "orange	tance to strong inorgar	nic acids, conce	based, textured floor an entrated sulfuric acid an e while still allowing eas
Where to Use	 Protection of cor chemicals. Protection again As a broadcast, 	ntainment tanks, mach st ground water contar	n concrete or steel subs ine bases, plant floors nination resulting from vide a slip resistant and s are present.	and walls expo uncontained c	osed to aggressive hemical spills.
Advantages	 Sikagard[®] Duoch Compressive Str Provides excelle 	nem 7500 Thixo exhibi ength values.	n, 2:1 by volume, Com is excellent Adhesion, and concrete against a	Hardness, Abr	
Coverage	106 ft²/gal. (2.6 m²/l)				
Packaging	3 gal. (11.34 l) unit				
Chemical Resistance	č ()	tanaa Chart availabla	at usa.sika.com or by c	entection Cilve	Tashaisal Carrissa
	RESULTS MAY DIFFER E APPLICATION METHODS	ASED UPON STATISTICAL VARIA S, TEST METHODS, ACTUAL SITE	nditions @ 73°F (22.7 TIONS DEPENDING UPON MIXIN CONDITIONS AND CURING CON	G METHODS AND EQ	
	Packaging	3 US gal. (1	,		
	Color	RAL 7038 A	· ·		
		Ibstrates Smooth Coatir	•		
		Sikadur [®] WDE Primer	160 ft²/US g	· /	10 mils w.f.t.
		Sikagard® Duochem 7500	•	al. (2.6 m ² /L)	15 mils w.f.t.
	2nd coat Steel Floors	Sikagard [®] Duochem 750	J 106 11-705 g	al. (2.6 m ² /L)	15 mils w.f.t.
		Sikagard® Duochem 750	0 106 ft2/US (gal. (2.6 m2/L)	15 mils w.f.t.
		Sikagard® Duochem 750		gal. (2.6 m2/L)	15 mils w.f.t.
	Actual coverage ra must be also made	tes and material consump for variation in film thickr	ation will depend upon por less or number of coats re and dark substrates. Test s	osity and profile quired to achieve	of substrates. Allowance e opacity with light (ie
	Shelf Life	2 years whe	n stored in original, unope	ned packaging.	
	Store	dry at 41 - 9	0°F (5 - 32°C).		
	Condition	product betw	veen 65 - 86°F (18 - 30°C)	before use.	
	Mix Ratio	A:B= 2:1 by	volume		
	Waiting Time Between Properties at 25°C	ween Coats@ 23°C (73°F	•) Minimum Touch Dry	1	Maximum 24 hours
	Solids Content	By volume		Approx. 95 %	
	Condo Contont	By weight		Approx. 96 %	
	Pot Life	8.8 oz (250		Approx. 60 min	
	Drying Times	Foot traffic		1 day	
		Light traffic	:	2 days	
		Full chemica	I resistance	7 days	
	Drying times will va Properties at 28 d		bstrate temperature and h	numidity.	
		ASTM D638, Type IV	2,960 psi (20.4 MPa)		
	-	ak ASTM D638, Type IV	28%		
	Compressive Stre	, , ,	8,380 psi (57.8 MPa)		
		-			
R IRI			E USER MUST ALWAYS		

	Water Absorption ASTM D570					
	24 h	0.42%				
	7 days 2 h boiling water	1.02% -0.57%				
	Bond Strength to Concrete ASTM D454 Abrasion Resistance ASTM D4060		406 psi (2.8 MPa)s	ubstrate fa	ailure	
	Taber Abraser, CS-17 and H-22 Wheels		170 mg 1000 g (2.2 lb)/1000	cycles	(CS-17)	
	Impact Resistance ASTM D3029 Microscopic cracks		51.3 lb/in (5.8 J)			
	Major cracks Hardness (Shore D) ASTM D2240		54.8 lb/in (6.2 J) 67			
	Water Vapor Transmission ASTM E96 (Water method)		0.19 g/hr/m ²	30 mils	film	
	Water Permeance ASTM E96 (Water method)		0.48 perm	30 mils	film	
	Thermal Compatibility with Concrete ASTM C884 (from -9 to 73°F [-23 to 23°	°C])	Substrate Failure *			
	Static Coefficient of Friction ASTM C10	028				
	Dry surface Wet surface		0.75 0.55			
	*Failure occurs in underlying concrete.		0.00			
	Product properties are typically averages expected on-site due to local factors, inclu					
How To Use	Concerto Concerto substratos must be		und Domovo onvidu	unt laitan	an aroone eil dirt	
Surface Preparation	Concrete: Concrete substrates must be agents, impregnations, wax, foreign mat mechanical means, in order to achieve a concrete substrate should be at least 3,5 at the time of application of Sikadur [®] WD	tter, coatings a profile equiv 500 psi (24 M	and any loose partic alent to ICRI CSP 3- Pa) at 28 days and a	les from t 4. The co t least 21	he surface by appro mpressive strength 5 psi (1.5 MPa) in te	opriate of the
	Steel: All steel to be coated must be dry, existing treatments such as coatings, sea matter) which will interfere with the adhe appropriate mechanical means such as a to SSPC-SP10, Near White Metal, 2 to oxidation of the steel occurs.	alers, wax, a esion of Sikag abrasive blas	nd contaminants (i.e. jard® Duochem 7500 it-cleaning. Achieve o	dirt, dust Thixo. Pr clean whit	t, grease, oils, and f repare steel substra te metal profile equi	oreign tes by valent
Mixing	Thoroughly pre-mix each component se throughout and components are consiste			ure that a	all solids are distr	buted
	Empty the complete contents of Compor partial unit, ensure that the components sized, clean mixing vessel.					0
	Mix the combined components for at lea trapping air. Use an Exomixer type or Jif mixing container. During the mixing oper or straight edge trowel at least once, to er 7500 Thixo should be uniform in color an life.	ffy mixing par ration, scrape nsure comple	ddle (recommended e down the sides and te mixing. When com	model) so bottom o pletely m	uited to the volume of the container with ixed, Sikagard [®] Duc	of the a flat ochem
	Never use a thickening agent such as S viscosity as this will greatly reduce chem			any other	filler to increase p	roduct
Application	Concrete:					
	Primer Coat: Apply Sikadur [®] WDE Prime to a uniform coverage without ponding. I published recommendations and further	Refer to the o				
	<u>1st Coat</u> : Once the primer is tack free app to a uniform coverage without ponding.	ply Sikagard®	Duochem 7500 Thix	to using a	brush, roller or squ	eegee
	2nd Coat: Once first coat is tack free, ap roller or squeegee to a uniform coverage			uochem 7	7500 Thixo using a	brush,
	Steel: Priming, consolidation or sealing or required under typical circumstances. H preparation and ambient conditions, reference required to prevent the possibility of issue cal Services for advice.	lowever, due erence test ar	to variations in steel eas are recommend	l quality, s ed to dete	surface condition, sermine whether prin	urface ning is
	RIOR TO EACH USE OF ANY SIKA PRODUCT, STRUCTIONS ON THE PRODUCT'S MOST CU HEET WHICH ARE AVAILABLE ONLINE AT HTT ARTMENT AT 800.933.7452 NOTHING CONTAINE D READ AND FOLLOW THE WARNINGS AND IN ENT PRODUCT DATA SHEET, PRODUCT LABEL	RRENT PROD 'P://USA.SIKA ED IN ANY SIK ISTRUCTIONS	UCT DATA SHEET, PF .COM/ OR BY CALLIN A MATERIALS RELIEV FOR EACH SIKA PR	RODUCT L IG SIKA'S VES THE L ODUCT AS	LABEL AND SAFETY TECHNICAL SERVIC JSER OF THE OBLIG S SET FORTH IN THE	DATA E DE- ATION

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See Typical Data section of this product data sheet above for coverage rates, specific application thickness and number of coats recommended. Limitations Not suitable for use on exterior, slab-on-grade concrete substrates. Minimum / Maximum substrate temperature; 60°F / 85°F (15°C / 30°C). Observe minimum application temperature of 59°F (15°C) and product conditioning temperatures of the substrate temperature of temperature o
Minimum / Maximum substrate temperature; 60°F / 85°F (15°C / 30°C).
 65° - 85°F (18° - 30°C) as high viscosity coatings exhibit reduced smoothing properties and greater tendency to display application marks at low temperatures. Substrate temperature must be at least 5.5°F (3°C) above the measured dew point. Moisture content of concrete substrates must be < 6% (Tramex CME/CMExpert type concrete moist meter measurement) before application of Sikadur®WDE Primer otherwise use Sikagard® 75 Epo-Cem as an initial barrier up to a maximum moisture content of 12%. Do not apply onto porous surfaces where moisture vapor transmission will occur during application. Maximum relative humidity during application and cure; 85%. Do not hand mix Sikagard® materials; mechanically mix only. Should maximum waiting time between coats be exceeded, abrade surface of applied material (rem ing all gloss) vacuum-off all dust and debris, and wipe with solvent. Allow solvent to completely flash and dry before proceeding with subsequent coats. Protect from dampness, condensation and water contact during the initial 24 hour cure period (curin times will be lengthened at cold temperatures and protection should therefore remain for longer). Not recommended for areas subject to frequent thermal cycles. Surface may discolor in areas exposed to ultraviolet light. Not designed as an aesthetic product.

Application of Sikagard® Duochem 7500 Thixo onto properly prepared steel surfaces is typically the same

uct Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart-ment at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALL MARCE. CALLING 201-933-8800.

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Construction

Product Data Sheet Edition 10.30.2015 Sikadur WDE Primer

Sikadur[®] WDE Primer

Moisture Intensive Epoxy Resin

Description				ctura inconcitiv
	Sikadur WDE Primer a two-con characteristics and fast cure a		esin with excellent mor	Sture-Insensitiv
Where to Use	Sikadur WDE Primer is the pri It is also especially performing	•		
Advantages	 Cures down to 32°F (0°C). Can be used in cold rooms Ideal for shutdown or fast t Good resistance to a wide 	3.	organic acids and alka	ılis.
How to Use				
Surface Preparation	Surface must be clean, sound bond inhibiting impregnations etc. should be dressed off to a be cleaned and prepared to by shot blasting or equivalent vacuum any remaining dirt at ensure a tenacious bond betw be careful to leave concrete w rates of the primer and/or sub blast" pattern may show thro	, waxes and any other conta achieve a level surface prior t achieve a laitance and cont t mechnical means (CSP-3 and dust with a wet/dry vacuu yeen the primer and substrate ith a uniform texture. Over "bl psequent topcoats. It is also ugh the last coat. This is kr	iminants. All projection to the application. Cor taminant free, open t as per ICRI guideline um. Removing residu e. Whenever "shot-bla lasting" will result in re possible that the textu	ns, rough spots ncrete - Should textured surfac s). Sweep and al dust will hel sting" is utilized duced coverag ure of the "sho
/ ixing	strength of the concrete subst 250 psi (1.7 MPa) in tension a Empty component B into comp	at the time of application of Si ponent A container. Mix the co	ikadur WDE Primer.	for at least 3 mi
Mixing	strength of the concrete subst 250 psi (1.7 MPa) in tension a Empty component B into comp using a low-speed drill (300-4 Typical Data (Mate RESULTS MAY DIFFER BASED	at the time of application of Si ponent A container. Mix the co	ikadur WDE Primer. pmbined components to ing air. Use an Exom 15 @ 74°F (22°C) an NDING UPON MIXING METHOD ITE CONDITIONS AND CURING plastic pail (short filled 2 astic container (short filled aging. Store dry at 40° -	for at least 3 mi iixer type mixin nd 40% R.H.) is AND EQUIPMENT, s CONDITIONS. 2.5 gal. pails) ed 1 gal. cans) 90°F (5° -32°C).
/ lixing	strength of the concrete subst 250 psi (1.7 MPa) in tension a Empty component B into comp using a low-speed drill (300-4 Typical Data (Mate RESULTS MAY DIFFER BASED TEMPERATURE, APPLICATION Packaging Colors	nt the time of application of Si ponent A container. Mix the co 50 rpm) to minimize entrapp rial and curing condition UPON STATISTICAL VARIATIONS DEPEN METHODS, TEST METHODS, ACTUAL SI 2 gal (8 L) Component A: 2 x 1 gallon Component B: 2 x 1 pint pla Clear 2 years in unopened packa	ikadur WDE Primer. pmbined components to ing air. Use an Exom 15 @ 74°F (22°C) an NDING UPON MIXING METHOD ITE CONDITIONS AND CURING plastic pail (short filled 2 astic container (short filled aging. Store dry at 40° -	for at least 3 mi iixer type mixin nd 40% R.H.) is AND EQUIPMENT, s CONDITIONS. 2.5 gal. pails) ed 1 gal. cans) 90°F (5° -32°C).
fixing	strength of the concrete subst 250 psi (1.7 MPa) in tension a Empty component B into comp using a low-speed drill (300-4 Typical Data (Mate RESULTS MAY DIFFER BASED TEMPERATURE, APPLICATION Packaging Colors Shelf Life Mixing Ratio	nt the time of application of Si ponent A container. Mix the co 50 rpm) to minimize entrapp rial and curing condition UPON STATISTICAL VARIATIONS DEPEN METHODS, TEST METHODS, ACTUAL SI 2 gal (8 L) Component A: 2 x 1 gallon Component B: 2 x 1 pint pla Clear 2 years in unopened packa Condition product between A:B = 3:1 by volume	ikadur WDE Primer. pmbined components to ing air. Use an Exom 15 @ 74°F (22°C) an NDING UPON MIXING METHOD ITE CONDITIONS AND CURING plastic pail (short filled 2 astic container (short filled aging. Store dry at 40° -	for at least 3 mi iixer type mixin nd 40% R.H.) is AND EQUIPMENT, s CONDITIONS. 2.5 gal. pails) ed 1 gal. cans) 90°F (5° -32°C).
/ lixing	strength of the concrete subside 250 psi (1.7 MPa) in tension at 250 psi (1.7 MPa) in tension at 250 psi (1.7 MPa) in tension at 250 psi (1.7 MPa) in tension at 250 psi (1.7 MPa) in tension at 250 psi (1.7 MPa) in tension at 250 psi (1.7 MPa) and the component at 250 psi (1.7 MPa) and the c	the time of application of Si ponent A container. Mix the co 50 rpm) to minimize entrapp rial and curing condition UPON STATISTICAL VARIATIONS DEPEN METHODS, TEST METHODS, ACTUAL SI 2 gal (8 L) Component A: 2 x 1 gallon Component B: 2 x 1 pint pla Clear 2 years in unopened packa Condition product between A:B = 3:1 by volume C) and 50% R.H. g/L) 9.34 (1.12) 600 cps	ikadur WDE Primer. pmbined components to ing air. Use an Exom 15 @ 74°F (22°C) an NDING UPON MIXING METHOD ITE CONDITIONS AND CURING plastic pail (short filled 2 astic container (short filled aging. Store dry at 40° -	for at least 3 mi iixer type mixin nd 40% R.H.) is AND EQUIPMENT, is CONDITIONS. 2.5 gal. pails) ed 1 gal. cans) 90°F (5° -32°C). before using. Mixed A+H 9.19 (1.1) 900 cps 100%
Mixing	strength of the concrete subside 250 psi (1.7 MPa) in tension at 250 psi (1.7 MPa) in tension at 250 psi (1.7 MPa) in tension at 250 psi (1.7 MPa) in tension at 250 psi (1.7 MPa) in tension at 250 psi (1.7 MPa) at 250 p	the time of application of Si ponent A container. Mix the co 50 rpm) to minimize entrapp rial and curing condition UPON STATISTICAL VARIATIONS DEPEN METHODS, TEST METHODS, ACTUAL SI 2 gal (8 L) Component A: 2 x 1 gallon Component B: 2 x 1 pint pla Clear 2 years in unopened packa Condition product between A:B = 3:1 by volume C) and 50% R.H. g/L) 9.34 (1.12) 600 cps - oats, 70°F (21°C) mer Neat Broadcast	ikadur WDE Primer. pmbined components f ing air. Use an Exom IS @ 74°F (22°C) an NDING UPON MIXING METHOD ITE CONDITIONS AND CURING plastic pail (short filled 2 astic container (short filled aging. Store dry at 40° - 1 65° - 85°F (18° - 30°C) Hardener B 8.73 (1.05)	for at least 3 mi iixer type mixin nd 40% R.H.) is AND EQUIPMENT, is CONDITIONS. 2.5 gal. pails) ed 1 gal. cans) 90°F (5° -32°C). before using. Mixed A+E 9.19 (1.1) 900 cps



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	paddle (recommended model) suited to the volume of the mixing container. During the mixing operations, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing. Mix only that quantity that can be used within its pot life.
Application	Primer - The mixed resin should be applied at 160 ft ² /gal. (4 m ² /L) using a brush or roller when used as a primer for other Sika products. When it is used as a first coat of a build up system it is normal to broadcast Barnes # 51 or # 71 sand to saturation at a rate of 2-3 lb/10 ft ² (1-1.5 kg/m ²) and allow to dry before proceeding to the next step.
imitations	 Do not thin with solvents. Not recommended for repairs applied underwater. Minimum/Maximum substrate temperature: 32°/85° (0°/30°). Maximum relative humidity: 85%. Substrate temperature must be at least 5° (3°) above measured dew point. Conduct quantitative anhydrous calcium chloride testing in accordance with ASTM-F1869. Maximum acceptable test result is 3 pounds per 1,000 ft2 per 24 hours. Determine the surface moisture content by using an impedance moisture meter designed for use on concrete as detailed in ASTM E-1907. Acceptable test results shall be 4% by mass or less. If over, use Sikafloor EpoCem 81/82. Freshly applied Sikadur WDE Primer should be protected from dampness, condensation and water for at least 24 hrs. Do not thin this product. Addition of thinners will slow the cure and reduce the ultimate properties of this product. This product is not designed for exterior use, immersion, or any use where moisture can reach the underside of the resurfacer. Will discolor over time when exposed to sunlight (UV) and under certain artificial lighting conditions. UV resistant, light stable topcoats are available where ultimate color/clarity retention is required.
	PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET
	INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800-933-7452. NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTION FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT
	INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800-933-7452. NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTION FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE. KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN.NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to th actual Safety Data Sheets containing physical, eoclogical, toxicological and other safety related data. Read the current actual Safety Data Sheet
	INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800-933-7452. NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTION FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE. KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to th actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheets before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887. Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart ment at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart

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Product Data Sheet Edition 10.16.2014 Sikagard® 616

Sikagard[®] 616

Versatile Epoxy for use as a Primer, High Build Protective Coating and for Decorative Quartz and Flake Application

Descriptio		ard® 616 is a 2 component n build coatings and decor				sed as a clear primer	
Where to L	quartz	Sikagard [®] 616 is ideal as a broadcast clear, low odor top coat or intermediate coat over decorative quartz or vinyl flake floor broadcast systems. Sikagard [®] 616 can also be top coated with an aliphatic urethane when increased chemical and abrasion resistance are required.					
	(pbw -	When used as a primer, Sikagard [®] 616 can be considered where \leq 4% moisture content by mass (pbw – part by weight) is measured on concrete substrate with Tramex [®] CME/CMExpert type concrete moisture meter.					
Advantage	■ Dura ■ Attra ■ Goo ■ 100 ⁴ ■ Easi ■ Goo	h, smooth, non-porous si able, impermeable and se ctive, high gloss, reflectiv d chemical and mechanic % solids as supplied. Iy applied with brush, rolle d Abrasion Resistance. ellent Impact Resistance.	amless. ve coating cal resistance.	an.			
Coverage	mm) w	th finish coating: Prime ret film thickness (w.f.t.) V m) wet film thickness (w.f.	Vear coat: 105 - 135				
Packaging		onent A: 3 US gal. (8.5 L) .). (Ready to mix unit).); Component B: 1.5	0 US gal. (5.7 L); Compone	nts A+B: 4.5 US gal	
	RESULTS MAY DIFFER TEMPERATURE, APPLI	Material and curing con BASED UPON STATISTICAL VAR CATION METHODS, TEST METHO 2 years in original I	IATIONS DEPENDING UPO DDS, ACTUAL SITE CONDIT	N MIXING METH	HODS AND EQUIPMEN RING CONDITIONS.	,	
	RESULTS MAY DIFFER	BASED UPON STATISTICAL VAR CATION METHODS, TEST METHO 2 years in original u	ATIONS DEPENDING UPO DDS, ACTUAL SITE CONDIT UNOPENED CONTAINER rial for at least 24 ho Time ~ 50 n ~ 25 n	N MIXING METH IONS AND CUP	HODS AND EQUIPMEN RING CONDITIONS. er storage.	IT,	
	RESULTS MAY DIFFER TEMPERATURE, APPLI Shelf Life Storage Conditio Color Pot life material	BASED UPON STATISTICAL VAR CATION METHODS, TEST METHO 2 years in original of Precondition mater Clear Temperature +50°F (10°C) +68°F (20°C)	ATIONS DEPENDING UPO DDS, ACTUAL SITE CONDIT unopened container rial for at least 24 ho Time ~ 50 ~ 25 ~ 25 second coat of Sikag	n MIXING METH IONS AND CUF under prope urs between minutes minutes minutes	low: Image: In 65° to 75°F (18 Image: Imag	ит, ° to 24°C). num	
	RESULTS MAY DIFFER TEMPERATURE, APPLI Shelf Life Storage Condition Color Pot life material Waiting / Recoat	BASED UPON STATISTICAL VAR CATION METHODS, TEST METHO 2 years in original to ons Precondition mater Clear Temperature +50°F (10°C) +68°F (20°C) +86°F (30°C) Times Before applying s Ambient & substrat +50°F (10°C) +68°F (20°C)	ATIONS DEPENDING UPO DDS, ACTUAL SITE CONDIT UNOPENED CONTAINER rial for at least 24 ho Time ~ 50 h ~ 25 h ~ 25 h ~ 15 h Second coat of Sikag	n MIXING METH IONS AND CUP under prope urs between minutes minutes ard® 616 al Minimu 24 hour 12 hours	low: In 65° to 75°F (18 In 65° to 75°F (18 Maxin rs 3 days rs 2 days rs 1 day	ит, ° to 24°C). num	
	RESULTS MAY DIFFER TEMPERATURE, APPLI Shelf Life Storage Condition Color Pot life material Waiting / Recoat	BASED UPON STATISTICAL VAR CATION METHODS, TEST METHOD 2 years in original of Precondition mater Clear Temperature +50°F (10°C) +68°F (20°C) +86°F (30°C) Times Before applying s Ambient & substrat +50°F (10°C) +68°F (20°C) +86°F (30°C)	ATIONS DEPENDING UPO DDS, ACTUAL SITE CONDIT UNOPENED CONTAINER rial for at least 24 ho Time ~ 50 h ~ 25 h ~ 25 h ~ 15 h Second coat of Sikag	n MIXING METH IONS AND CUP under prope urs between minutes minutes ard® 616 al Minimu 24 hour 12 hours	low: In 65° to 75°F (18 In 65° to 75°F (18 Im Maxin rs 3 days rs 2 days im 1 day	ит, ° to 24°C). num	



Properties Tested at 73°f (23°c) and 50 % R.h:

Solid content ~ 100% (by volume) / ~ 100% (by weight)	
Compressive strength ASTM C579 Resin (filled 1:0,9 with F34)	7,250 psi (50 N/mm²) (28 days)
Flexural strength ASTM C580 Resin (filled 1:0,9 with F34)	2,900 psi (20 N/mm²) (28 days)
Pull-off strength ASTM D4541	> 400 psi (2.7 MPa) (100% concrete failure)
Viscosity (mixed) Components A + B:	292 (SP1/100)
Shore D hardness (7 days) ASTM D2240	78 - 82
VOC content ASTM D2369	≤ 50 g/L
Chemical Resistance:	Please consult Sika Technical Services.

How to Use

Mixing

Application

Surface Preparation Surface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds, Preparation bond inhibiting impregnations, waxes and any other contaminants. All projections, rough spots, etc. should be dressed off to achieve a level surface prior to the application.

Concrete - Should be cleaned and prepared to achieve a laitance-free and contaminant-free, open textured surface by shot blasting or equivalent mechanical means (CSP-3 to CSP-4 as per ICRI guidelines). Sweep and vacuum any remaining dirt and dust with a wet/dry vacuum. Removing residual dust will help ensure a tenacious bond between the primer and substrate. Whenever "shot-blasting" is utilized, be careful to leave concrete with a uniform texture. "Overblasting" will result in reduced coverage rates of the primer and/or subsequent topcoats. The "shotblast" pattern may show through the last coat, known as "tracking". The compressive strength of the concrete substrate should be at least 3,500 psi (24 MPa) at 28 days and at least 215 psi (1.5 MPa) in tension at the time of application. For other substrates, please contact Sika Technical Services.

Mixing Ratio - 1.5 : 1 by volume. Premix each component separately. Empty Component B (Hardener) in the correct mix ratio into Component A (Resin). Mix the combined components for at least 3 minutes using a low speed drill (300 - 450 rpm) and Exomixer or Jiffy type paddle suited to the volume of the mixing container to minimize entrapped air. Be careful not to introduce any air bubbles while mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in the coating. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing.

Do not mix more material than can be applied within the working time limits (i.e. pot life) at the actual field temperature.

As primer: Apply Sikagard[®] 616 by squeegee at the rate of 160 - 200 ft²/US gal (3.9 – 4.9 m²/L) at 8 - 10 mils (0.20 – 0.25 mm) wet film thickness (w.f.t.) and back roll with pressure after 15 minutes. Coverage will vary depending on the porosity of the prepared floor. Product has a limited Pot Life, see Typical Data. Do not apply by dipping roller into mixing container. Pour a bead of product in the form of a ribbon on the surface to be coated, then spread with squeegee and back roll. Ensure that the coating is pore-free and pinhole-free and provides uniform and complete coverage over the entire concrete substrate. If necessary, apply an additional coat to ensure the coating is pore-free and pinhole-free and complete coverage over the entire concrete substrate.

As sealer/intermediate: Sikagard[®] 616 is applied with a 40 mil (1 mm) notched squeegee over a smooth surface and a flat squeegee over a rough or decorative quartz surface. Back rolling is typically done with an 18 inch (455 mm) wide 3/8 inch (10 mm) short nap, solvent-resistant roller cover. Back roll the Sikagard[®] 616 only to level the squeegee applied material. Over-rolling and late back rolling may cause bubbling and leave roller marks.

Limitations Notes on Limitations: Prior to application, measure and confirm Substrate Moisture Content, Ambient Relative Humidity, Ambient and Surface Temperature and Dew Point. During installation, confirm and record above values at least once every 3 hours, or more frequently whenever conditions change (e.g. Ambient Temperature rise/fall, Relative Humidity increase/decrease, etc.).

Substrate Moisture Content: Moisture content of concrete substrate must be ≤ 4% by mass (pbw – part by weight) as measured with a Tramex[®] CME/CMExpert type concrete moisture meter on mechanically prepared surface according to this product data sheet (preparation to CSP-3 to CSP-4 as per ICRI guidelines). Do not apply to concrete substrate with moisture levels > 4% mass (pbw – part by weight) as measured with Tramex[®] CME/CMExpert type concrete moisture meter. If moisture content of concrete substrate is > 4% by mass (pbw – part by weight) as measured with Tramex[®] CME/CMExpert type concrete moisture meter. If moisture content of concrete substrate is > 4% by mass (pbw – part by weight) as measured with Tramex[®] CME/CMExpert type concrete moisture meter. If moisture content of concrete substrate is > 4% by mass (pbw – part by weight) as measured with Tramex[®] CME/CMExpert type concrete moisture meter. If moisture content of concrete substrate is > 4% by mass (pbw – part by weight) as measured with Tramex[®] CME/CMExpert type concrete moisture meter.

When relative humidity tests for concrete substrate are conducted perASTM F2170 for project specific requirements, values must be $\leq 85\%$. If values are > 85% according to ASTM F2170 use Sikalastic[®] MT Primer or Sikafloor[®] 81 EpoCem.

ASTM F2170 testing is not a substitute for measuring substrate moisture content with a Tramex[®] CME/ CMExpert type concrete moisture meter as described above.

Material Temperature: Precondition material for at least 24 hours between 65° to 75°F (18° to 24°C).



Ambient Temperature: Minimum/Maximum 50°/85°F (10°/30°C).

Substrate Temperature: Minimum/Maximum 50°/85°F (10°/30°C). Substrate temperature must be at least 5°F (3°C) above measured Dew Point.

Mixing and Application attempted at Material, Ambient and/or Substrate Temperature conditions less than 65°F (18°C) will result in a decrease in product workability and slower cure rates.

Relative Ambient Humidity: Maximum ambient humidity 85% (during application and curing).

Dew Point: Beware of condensation!

The substrate must be at least 5°F (3°C) above the Dew Point to reduce the risk of condensation, which may lead to adhesion failure or "blushing" on the floor finish. Be aware that the substrate temperature may be lower than the ambient temperature.

Mixing: Do not hand mix Sikagard® materials. Mechanically mix only. Do not thin this product. Addition of thinners (e.g. water, solvent, etc.) will slow cure and reduce ultimate properties of this product. Use of thinners will void any applicable Sika warranty.

Application: If used as a primer. Apply the primer/coating to the prepared substrate using a squeegee and back roll to provide uniform coverage. Ensure that the substrate is pore-free and pinhole-free and provides uniform and complete coverage over the entire concrete substrate. If necessary, apply an additional coat to ensure the substrate is pore-free and pinhole-free and provides uniform and complete coverage over the entire substrate.

- Do not apply while ambient and substrate temperatures are rising, as pinholes may occur. Ensure there is no vapor drive at the time of application. Refer to ASTM D4263, may be used for a visual indication of vapor drive.
- Freshly applied material should be protected from dampness, condensation and water for at least 72 hrs.
- Will discolor over time when exposed to sunlight (UV) and under certain artificial lighting conditions. Use of clear UV resistant top coat may not prevent discoloration of underlying coatings.
- Do not apply Sikagard[®] to concrete substrate containing aggregates susceptible to ASR (Alkali Silica Reaction) due to risk of natural alkali redistribution below the Sikagard® product after application. If concrete substrate has or is suspected to have ASR (Alkali Silica Reaction) present, do not proceed. Consult with design professional prior to use.
- Any aggregate used with Sikagard[®] systems must be non-reactive and oven-dried.
- This product is not designed for negative side waterproofing
- Use of unvented heaters and certain heat sources may result in defects (e.g. blushing, whitening, debonding, etc.).
- Beware of air flow and changes in air flow. Introduction of dust, debris, and particles, etc. may result in surface imperfections and other defects.

PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800-933-7452. NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTION FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET. PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY.

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart-ment at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all Tisks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.



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C490

Sikagard[®] 664

Versatile Epoxy for High Performance Protective Coatings

Descriptior	ı	Sikagard [®] 664 is a pigmented, two part low viscosity, self-priming, epoxy coating/binder used for smooth and textured coatings and/or broadcast overlayments.
Where to U	se	Roller coat and self-leveling slurry for concrete and cement screeds with normal up to medium heavy wear (e.g. storage, hallways, corridors and assembly halls, maintenance workshops, garages and loading ramps), or as a seal coat for broadcast systems. When used as a primer, Sikagard [®] 664 can be considered when ≤ 4% moisture content by mass (pbw – part by weight) is measured on the concrete substrate with a Tramex [®] CME/CMExpert type concrete moisture meter.
Advantages		 Good chemical and mechanical resistance. Easily applied with brush, roller or squeegee. Glossy aesthetic finish Slip resistant surface possible. Durable, impermeable and seamless. Solvent-free, neutral odor. Low mixed viscosity.
Coverage		Smooth Finish Coating: Prime coat: 160 - 200 ft ² /US gal $(3.9 - 4.9 \text{ m}^2/\text{L})$ at 8 - 10 mils $(0.20 - 0.25 \text{ mm})$ wet film thickness (w.f.t.). Wear coat: 105 - 135 ft ² /US gal $(2.6 - 3.3 \text{ m}^2/\text{L})$ at 12 - 15 mils $(0.30 - 0.38 \text{ mm})$ wet film thickness (.f.t.).
Packaging		Component A: 3.0 US gal. (11.4 L); Component B: 1.5 US gal. (5.7 L) Components A+B: 4.5 US gal. (17 L) (Ready to mix unit).
Cure Mecha	anism	See Typical Data.
Chemical R	Resistance	Please consult Sika Technical Service.
	Typical	Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.)
		Y DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, RE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life 2 years in unopened container. Store dry between 40°-90°F (4°-32°C). Storage Conditions Precondition material for at least 24 hours between 65° to 75°F (18° to 24°C). Golor Gray, Red & Tar Pot life material Temperature Time +50°F (10°C) ~ 50 minutes +68°F (20°C) ~ 25 minutes +68°F (30°C) ~ 15 minutes Waiting / Recoat Times Before applying second coat Stkagard 664 allow: Ambient & Substrate Temperature Minimum +50°F (10°C) 24 hours 3 days +68°F (20°C) 8 hours 2 days +86°F (30°C) 6 hours 1 day Before applying Sikagard Epoxy or Polyurethane on Sikagard 616 allow: Ambient & Substrate Temperature Minimum +50°F (10°C) 24 hours 3 days +68°F (20°C) 8 hours 2 days +86°F (30°C) 6 hours 1 day Cure Times Ambient & Substrate Temperature Foot traffic Light traffic Full cure +50°F (10°C) ~24 hours 3 days ~10 days +68°F (20°C) 8 hours 2 days <t< th=""><th>TEMPERATURE, APPLICATIO</th><th>N METHODS, TEST</th><th>METHODS, ACTUAL SI</th><th>TE CONDITIONS AND C</th><th>URING CONDITIONS.</th><th></th></t<>	TEMPERATURE, APPLICATIO	N METHODS, TEST	METHODS, ACTUAL SI	TE CONDITIONS AND C	URING CONDITIONS.	
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Compressive Strength (ASTM C579) - 28 days 7,250 psi (50 N/mm ²)			+68°F (20°C)	~ 12 hours	~ 2 days	~ 7 days
			+86°F (30°C)	~ 8 hours	~ 1 days	~ 5 days
Flexural Strength (ASTM C580) - 28 days 2,900 psi (20 N/mm²)	Compressive Streng	th (ASTM C57	9) - 28 days	7,250) psi (50 N/mm²)	
	Flexural Strength (A	STM C580) - 2	8 days	2,900) psi (20 N/mm ²)	

Pull-Off Strength (ASTM D4541)	>400 psi (2.7 N/mm ²) (100% concrete fail)
Shore D Hardness (ASTM D2240) - 7 days	76
VOC Content (ASTM D2369)	<30 g/l

laitance, grease, curing compounds, born ants. All projections, rough spots, etc. should blication. a laitance-free and contaminant-free, open nical means (CSP-3 to CSP-4 as per ICR nd dust with a wet/dry vacuum. Removing the primer and substrate. Whenever "shot uniform texture. "Over-blasting" will result in uent topcoats. The "shotblast" pattern may mpressive strength of the concrete substrate at least 215 psi (1.5 MPa) in tension at the Sika Technical Services. e substrate is required. Prime with Sikagard rises with temperature and humidity) until tacl primer is pore-free, pinhole-free and provides e. Sikagard® 664 may be used as primer of acted to light traffic use. ately. Empty Component B (Hardener) in the prined components for at least 3 minutes using throduce any air bubbles while mixing. Make cor partially cured spots in the coating. During in of the container with a flat or straight edge ely. Empty Component B (Hardener) in the pined components for at least 1 minute using the paddle suited to the volume of the mixing pe paddle suited to the volume of the mixing the container with a flat or straight edge ely. Empty Component B (Hardener) in the pined components for at least 1 minute using the paddle suited to the volume of the mixing the paddle suited to the volume of the mixing the bined components for at least 1 minute using the paddle suited to the volume of the mixing the bined components for at least 1 minute using the
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ries with temperature and humidity) until tack primer is pore-free, pinhole-free and provides e. Sikagard® 664 may be used as primer of acted to light traffic use. ately. Empty Component B (Hardener) in the ined components for at least 3 minutes using the paddle suited to the volume of the mixing. throduce any air bubbles while mixing. Make or partially cured spots in the coating. During n of the container with a flat or straight edge ely. Empty Component B (Hardener) in the bined components for at least 1 minute using the paddle suited to the volume of the mixing of the container with a flat or straight edge ely. Empty Component B (Hardener) in the bined components for at least 1 minute using the paddle suited to the volume of the mixing ope filler and mix for additional 2 minutes. Be ake sure the contents are completely mixed buring the mixing operation, scrape down the edge trowel at least once to ensure complete the working time limits (i.e. pot life) at the
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- 200 ft²/US gal (3.4 – 4.9 m²/L) at 8 – 10 mil
Il with pressure after 15 minutes. Coverage r. Product has a limited Pot Life, see Typica er. Pour a bead of product in the form of a squeegee and back roll. Ensure that the orm and complete coverage over the entire coat to ensure the coating is pore-free and ge over the entire concrete substrate.
th a 40 mil (1 mm) notched squeegee over a adcast quartz surface. Back rolling is typicall hort nap, solvent-resistant roller cover. Bac d material. Over-rolling and late back rolling
oduct to the surface to be coated, then spread kness. Roll immediately (within max. 10 min to ensure even thickness and the removal o roll in two directions at a 90 degree angle by imited Pot Life, see Typical Data.
oll N r. F ner. sorn coa ge o th a adc sho adc adc adc adc adc adc adc adc adc adc

Limitations

Notes on Limitations: Prior to application, measure and confirm Substrate Moisture Content, Ambient Relative Humidity, Ambient and Surface Temperature and Dew Point. During installation, confirm and record above values at least once every 3 hours, or more frequently whenever conditions change (e.g. Ambient Temperature rise/fall, Relative Humidity increase/decrease, etc.).

Substrate Moisture Content: Moisture content of concrete substrate must be $\leq 4\%$ by mass (pbw – part by weight) as measured with a Tramex[®] CME/CMExpert type concrete moisture meter on mechanically prepared surface according to this product data sheet (preparation to CSP-3 to CSP-4 as per ICRI guidelines). Do not apply to concrete substrate with moisture levels > 4% mass (pbw – part by weight) as measured with Tramex[®] CME/CMExpert type concrete moisture meter. If moisture content of concrete substrate is > 4% by mass (pbw – part by weight) as measured with Tramex[®] CME/CMExpert type concrete moisture meter. If moisture content of concrete substrate is > 4% by mass (pbw – part by weight) as measured with Tramex[®] CME/CMExpert type concrete moisture meter. If moisture content of concrete substrate is > 4% by mass (pbw – part by weight) as measured with Tramex[®] CME/CMExpert type concrete moisture meter. If moisture content of concrete substrate is > 4% by mass (pbw – part by weight) as measured with Tramex[®] CME/CMExpert type concrete moisture meter.

When relative humidity tests for concrete substrate are conducted perASTM F2170 for project specific requirements, values must be $\leq 85\%$. If values are > 85% according to ASTM F2170 use Sikalastic[®] MT Primer or Sikafloor[®] 81 EpoCem.

ASTM F2170 testing is not a substitute for measuring substrate moisture content with a Tramex[®] CME/ CMExpert type concrete moisture meter as described above.

Material Temperature: Precondition material for at least 24 hours between 65° to 75°F (18° to 24°C).

Ambient Temperature: Minimum/Maximum 50°/85°F (10°/30°C).

Substrate Temperature: Minimum/Maximum $50^{\circ}/85^{\circ}F$ ($10^{\circ}/30^{\circ}C$). Substrate temperature must be at least $5^{\circ}F$ ($3^{\circ}C$) above measured Dew Point.

Mixing and Application attempted at Material, Ambient and/or Substrate Temperature conditions less than 65°F (18°C) will result in a decrease in product workability and slower cure rates.

Ambient Relative Humidity: Maximum ambient humidity 85% (during application and curing).

Dew Point: Beware of condensation!

The substrate must be at least $5^{\circ}F(3^{\circ}C)$ above the Dew Point to reduce the risk of condensation, which may lead to adhesion failure or "blushing" on the floor finish. Be aware that the substrate temperature may be lower than the ambient temperature.

Mixing: Do not hand mix Sikagard[®] materials. Mechanically mix only. Do not thin this product. Addition of thinners (e.g. water, solvent, etc.) will slow cure and reduce ultimate properties of this product. Use of thinners will void any applicable Sika warranty. Improper mixing procedure or incorrect mixing ratio may result in moisture sensitivity, whitening, slow cure, soft spots, and other defects.

Application: If used as a primer apply material to the prepared substrate using a squeegee and back roll to provide uniform coverage. Ensure that the substrate is pore-free and pinhole free and provides uniform and complete coverage over the entire substrate. If necessary, apply an additional coat to ensure the substrate is pore-free and pinhole-free and provides uniform and complete coverage over the entire substrate. If necessary, apply an additional coat to ensure the substrate is pore-free and pinhole-free and provides uniform and complete coverage over the entire substrate. Do not apply while ambient and substrate temperatures are rising, as pinholes may occur. Ensure there is no vapor drive at the time of application. Refer to ASTM D4263, may be used for a visual indication of vapor drive.

- Freshly applied material should be protected from dampness, condensation and water for at least 72 hrs.
- Will discolor over time when exposed to sunlight (UV) and under certain artificial lighting conditions. Use of clear UV resistant top coat may not prevent discoloration of underlying coatings.
- Do not apply Sikagard[®] to concrete substrate containing aggregates susceptible to ASR (Alkali Silica Reaction) due to risk of natural alkali redistribution below the Sikagard[®] product after application. If concrete substrate has or is suspected to have ASR (Alkali Silica Reaction) present, do not proceed. Consult with design professional prior to use.
- Any aggregate used with Sikagard[®] systems must be non-reactive and oven-dried.
- This product is not designed for negative side waterproofing
- Typically not recommended for exterior slabs on grade where freeze/thaw conditions may exist.
- Use of unvented heaters and certain heat sources may result in defects (e.g. blushing, whitening, debonding, etc.).
- Beware of air flow and changes in air flow. Introduction of dust, debris, and particles, etc. may
 result in surface imperfections and other defects.



PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800-933-7452. NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTION FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET. PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

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For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for the transmission of the read and follow the warnings and instruction for the obligation to read and follow the warnings and instruction for the obligation to read and follow the warnings and instruction for the obligation to read and follow the warnings and instruction for the obligation to read and follow the warnings and instruction for the obligation to read and follow the warnings and instruction for the obligation to read and follow the warnings and instruction for the obligation to read and follow the warnings and instruction for the obligation to read and follow the warnings and instruction for the obligation to read and follow the warnings and instruction for the obligation to read and follow the warnings and instruction for the obligation to read and follow the warnings and instruction for the obligation to read and follow the warnings and instruction for the obligation to read and follow the warnings and instruction for the obligation to read and follow the warnings and instruction for the obligation to read and follow the warnings and instruction for the obligation to read and follow the warnings and instruction for the obligation to read and follow the warnings and instruction for the obligation to read and follow the warnings and instruction for the obligation to read and follow the warnings and instruction for the obligation to read and follow the warnings and instruction for the obligation to read and follow the warnings and instruction for the obligation to read and follow the warnings and instruction for the obligation to the obligation to the obligation to the obl for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR WARKAN IES EARKESS OR IMPELED SHALL APPLT INCOUNTS ANY WARKAN'T OF WERKAN'T DE MEMORY ANALST FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.



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RESPONSIBLE CARE®

ISO 9001 RC 14001

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C500

Sikagard[®] 600 Chemical Resistant Protective Coating

Description	A two component, high solids, novolac epoxy with exceptional chemical resistance. Sikagard [®] 600 can be installed as a stand-alone coating. Its versatility allows Sikagard [®] 600 to be applied as a topcoat or used as a binder in a slurry/broadcast system.
Where to Use	Designed for use as a medium to heavy coat epoxy resurfacer in areas subjected to chemical spillages. Ideal for use in chemical processing, chemical storage areas, and battery charge stations.
Advantages	Low odor.Very good chemical resistance.Easy application.
Coverage	Approximately 80 - 130 ft ² /US gal (1.9 - $3.2 \text{ m}^2/\text{L}$) at 12 to 20 mils (0.3 – 0.5 mm) wet film thickness (w.f.t) or 240 - 390 ft ² /US gal (5.9 - $9.6 \text{ m}^2/\text{L}$) per 3 gallon unit over primed, relatively smooth, dense concrete surfaces. (The above figures do not allow for surface profile or wastage).
Packaging	Component A: 2.0 US gal. (7.6 L); Component B: 1 US gal. (3.8 L); Component A+B: 3.0 US gal. (11.3 L) (Ready to mix unit).

Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H. unless otherwise noted)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life 2 years in original unopened container under proper storage conditions. Store dry between $40^\circ - 90^\circ$ E ($4^\circ - 32^\circ$ C)

	between 40° - 90°F (4°- 32°C).			
Color	Gray			
Pot life material	Temperature	Time		
	+50°F (10°C)	~ 50 minutes		
	+68°F (20°C)	~ 25 minutes		
	+86°F (30°C)	~ 15 minutes		
	ted pot life is exceeded. end of pot life is no			
Waiting / Recoat Tin	nes Before applying second coat o	f Sikagard 600 allo	SW:	
	Ambient & substrate Temperature		maximum	
	+50°F (10°C)	24 hours	3 days	
	+68°F (20°C) +86°F (30°C)	12 hours 6 hours	2 days 1 day	
o ==:	(<i>' '</i>		<u> </u>	6 H
Cure Times	Ambient & substrate Temperature	~ 36 hours	light traffic	full cur
	+50°F (10°C) +68°F (20°C)	~ 24 hours	~ 6 days ~ 4 days	~ 10 days ~ 7 days
	+86°F (30°C)	~ 18 hours	~ 2 days	~ 5 days
	· · · · ·	10 110013	2 00/5	0 days
	t 73°f (23°c) and 50 % R.H:			
Compressive streng		400 psi (28 days)		
Pull-off strength AS	TM D4541:	> 400 psi (2.76 N	IPa) (100% concre	ete failure)
Elongation ASTM D	638:	24%		
Shore D hardness A	STM D2240:	85 - 88		
Impact Resistance	ASTM D2794:	160 in-Ibs.		
Abrasion Resistanc	e ASTM D4060:	25 mg loss		
Flammability ASTM	D635 Film is Self Extinguishing			
VOC content ASTM	D2369:	≤ 50 g/L		
Tensile strength AS	TM D638:	4,340 psi (7 Days	s)	
Chemical Resistance	e:	Please consult S	ikaTechnical Servi	ces.

How to Use	
Surface Preparation	Surface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds, Preparation bond inhibiting impregnations, waxes and any other contaminants. All projections, rough spots, etc. should be dressed off to achieve a level surface prior to the application.
	Concrete - Should be cleaned and prepared to achieve a laitance-free and contaminant-free, oper textured surface by shot blasting or equivalent mechanical means (CSP-3 to CSP-4 as per ICRI guide- lines). Sweep and vacuum any remaining dirt and dust with a wet/dry vacuum. Removing residual dust will help ensure a tenacious bond between the primer and substrate. Whenever "shot-blasting" is utilized, be careful to leave concrete with a uniform texture. "Over blasting" will result in reduced coverage rates of the primer and/or subsequent topcoats. The "shotblast" pattern may show through the last coat, known as "tracking". The compressive strength of the concrete substrate should be at least 3,500 psi (24 MPa) at 28 days and at least 215 psi (1.5 MPa) in tension at the time of application. For other substrates, please contact Sika Technical Services.
	Priming - Priming for concrete substrate is required. Prime with either Sikagard® 616 or Sikalastic® MT Primer. Allow the primer to cure (varies with temperature and humidity) until tack free before applying subsequent coats. Ensure that the primer is pore-free, pinhole-free and provides uniform and complete coverage over the entire substrate. Please refer to the individual most current and respective Product Data Sheet for specific and detailed information
Mixing	Mix Ratio - 2 : 1 by volume. Pre-mixed each component separately. Empty Component B (Hardener) in the correct mix ratio into Component A (Resin). Mix the combined components for at least 3 minutes using a low speed drill (300 - 450 rpm) and Exomixer or Jiffy type paddle suited to the volume of the mixing container to minimize entrapped air. Be careful not to introduce any air bubbles while mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in the coating. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing. Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature
Application	Pour a thin approximately 6 – 12 in. wide bead of Sikagard [®] 600 in the form of a ribbon on the surface and spread the material at a rate of approximately 130 ft ² /US gal (3.2 m ² /L) with a notched squeegee, flat squeegee, or trowel. Apply as evenly as possible, working from left to right, and then back. Back rolling is typically done with an 18 inch (454 mm) wide short nap, 3/8" (10 mm), solvent-resistant roller cover. Back roll the Sikagard [®] 600 only to level the squeegee applied material. Over-rolling and late back rolling may cause bubbling and leave roller marks.
Limitations	Notes on Limitations: Prior to application, measure and confirm Substrate Moisture Content, Ambient Relative Humidity, Ambient and Surface Temperature and Dew Point. During installation, confirm and record above values at least once every 3 hours, or more frequently whenever conditions change (e.g. Ambient Temperature rise/fall, Relative Humidity increase/decrease, etc.).
	Substrate Moisture Content: Moisture content of concrete substrate must be ≤ 4% by mass (pbw – part by weight) as measured with a Tramex [®] CME/CMExpert type concrete moisture meter on mechanically prepared surface according to this product data sheet (preparation to CSP-3 to CSP-4 as per ICRI guidelines). Do not apply to concrete substrate with moisture levels > 4% mass (pbw – part by weight) as measured with Tramex [®] CME/CMExpert type concrete moisture meter. If moisture content of concrete substrate is > 4% by mass (pbw part by weight) as measured with Tramex [®] CME/CMExpert type concrete moisture meter. If moisture content of concrete substrate is > 4% by mass (pbw part by weight) as measured with Tramex [®] CME/CMExpert type concrete moisture meter.
	When relative humidity tests for concrete substrate are conducted perASTM F2170 for project specific requirements, values must be ≤ 85%. If values are > 85% according to ASTM F2170 use Sikalastic MT Primer or Sikafloor [®] 81 EpoCem.
	ASTM F2170 testing is not a substitute for measuring substrate moisture content with a Tramex [®] CME CMExpert type concrete moisture meter as described above.
	Material Temperature: Precondition material for at least 24 hours between 65° to 75°F (18° to 24°C).
	Ambient Temperature: Minimum/Maximum 50°/85°F (10°/30°C).
	Substrate Temperature: Minimum/Maximum 50°/85°F (10°/30°C). Substrate temperature must be at least 5°F (3°C) above measured Dew Point.
	Mixing and Application attempted at Material, Ambient and/or Substrate Temperature conditions less than 65°F (18°C) will result in a decrease in product workability and slower cure rates.
	Relative Ambient Humidity: Maximum ambient humidity 85% (during application and curing).
	Dew Point: Beware of condensation! The substrate must be at least 5°F (3°C) above the Dew Point to reduce the risk of condensation, which may lead to adhesion failure or "blushing" on the floor finish. Be aware that the substrate temperature may be lower than the ambient temperature.
	Mixing: Do not hand mix Sikagard [®] materials. Mechanically mix only. Do not thin this product. Addition of thinners (e.g. water, solvent, etc.) will slow cure and reduce ultimate properties of this product. Use of thinners will void any applicable Sika warranty.
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Application: Apply the coating to the prepared substrate which should be pore-free and pinhole free. If necessary, apply an additional coat of a suitable material to ensure the substrate is pore free and pinhole-free and provides uniform and complete coverage over the entire substrate.

- Do not apply while ambient and substrate temperatures are rising, as pinholes may occur. Ensure there is no vapor drive at the time of application. Refer to ASTM D4263, may be used for a visual indication of vapor drive.
- Freshly applied material should be protected from dampness, condensation and water for at least 72 hrs.
- Will discolor over time when exposed to sunlight (UV) and under certain artificial lighting conditions. Use of clear UV resistant top coat may not prevent discoloration of underlying coatings.
- Do not apply Sikagard to concrete substrate containing aggregates susceptible to ASR (Alkali Silica Reaction) due to risk of natural alkali redistribution below the Sikagard® product after application. If concrete substrate has or is suspected to have ASR (Alkali Silica Reaction) present, do not proceed. Consult with design professional prior to use.
- Any aggregate used with Sikagard[®] systems must be non-reactive and oven-dried.
- This product is not designed for negative side waterproofing
- Use of unvented heaters and certain heat sources may result in defects (e.g. blushing, whitening, debonding, etc.).
 - Beware of air flow and changes in air flow. Introduction of dust, debris, and particles, etc. may result in surface imperfections and other defects.

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Sikadur[®] AnchorFix-1

High performance, two component adhesive anchoring system

Description	Sikadur [®] AnchorFix-1 adhesive anchoring system has been specially formulated as a high-performance, two component adhesive anchor system for threaded and reinforcing bars in uncracked concrete.
Where to Use	 Uncracked concrete Hard natural stone Solid rock Solid masonry
Advantages	 Fixing close to free edges. Versatile range of embedment depths. Anchoring without expansion forces. Component volume ratio of 10:1. Extended working time.
Coverage	See below.
Packaging	10.1 fl.oz. (300 ml) or 28.7 fl.oz. (850 ml) cartridge
Approvals	European Technical Approval (ETA) according to ETAG001-5 for threaded bars only.

Typical Data

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life When stored correctly, the shelf life will be from 12 months from the date of manufacture.

Storage Conditions

Cartridges should be stored in their original packaging, the correct way up, in cool conditions (+41°F to +77°F) out of direct sunlight.

Working & Loading Times									
Cartridge Temperature* T Work (minutes) Base Material Temperature T Load (minutes)									
+41°F to +50°F	18	+41°F to +50°F	145 minutes						
+50°F to +68°F	10	+50°F to +68°F	85 minutes						
+68°F to +77°F	6	+68°F to +77°F	50 minutes						
+77°F to + 86°F	+77°F to + 86°F 5 +77°F to + 86°F 40 minutes								
+86°F 4 +86°F 35 minutes									
T Work is the typical time to gel at the highest temperature in the range T Load is the typical time to reach full capacity									

*Cartridge temperature must be maintained at a minium of +41°F.



Installation Specification										
Property	Symbol	Unit								
Threaded Rod Diameter	d _a	in	5/16	3/8	1/2	5/8	3/4	1		
Drill Bit Diameter	d _o	in	3/8	1/2	9/16	11/16	13/16	1-1/16		
Cleaning Brush Size	d _b	in	0.5	0.551 0.787				1.142		
Minimum Embedment Depth	h _{ef,min}	in	2-1/2	3	4	5	6	8		
Maximum Embedment Depth	h _{ef,max}	in	3-3/4	4-1/2	6	7-1/2	9	12		
Minimum Concrete Thickness	h _{min}	in		$h_{ef} + 1-1/4 \text{ in } \ge 4 \text{ in}$ $h_{ef} + 2 \text{ d}_{o}$						
Critical Anchor Spacing	S _{cr}	in	4.0 h _{ef} 3.0 h _{ef}							
Critical Edge Distance	C _{ac}	in	2.0 h _{ef} 1.5 h _{ef}							
Maximum Tightening Torque	T _{inst}	ft.lb	7.5	15	25	55	80	120		

*The design professional on the job is ultimately responsible for the interpretation of the data provided above.

Allowable Steel Strength for Threaded Rods											
		Carbon Steel ASTM F 1554 Grade 36 (A307 Gr.C)		Carbon Steel ASTM A 193 B7		Stainless Steel ASTM F 593 CW		Stainless Steel ASTM F 593 SH			
Anchor Diameter (in)		Allowable Tension, N _{all}	Allowable Shear, V _{all}	Allowable Tension, N _{all}	ension, Shear, V _{all} Tension, Shear, V _{all}		Allowable Tension, N _{all}	Allowable Shear, V _{all}			
3/8"	lb	2,110	1,080	4,550	2,345	3,360	1,870	4,190	2,160		
3/0	kN	9.4	4.8	20.2	10.4	16.1	8.3	18.6	9.6		
1/2"	lb	3,750	1,930	8,100	4,170	6,470	3,330	7,450	3,840		
1/2	kN	16.7	8.6	36.0	18.5	28.8	14.8	33.1	17.1		
5/8"	lb	5,870	3,030	12,655	6,520	10,130	5,220	11,640	6,000		
5/6	kN	26.1	13.5	56.3	29.0	45.1	23.2	51.8	26.7		
3/4"	lb	8,460	4,360	18,220	9,390	12,400	6,390	15,300	7,880		
3/4	kN	37.6	19.4	81.0	41.8	55.2	28.4	68.1	35.1		
7/8"	lb	11,500	5,930	24,800	12,780	16,860	8,680	20,830	10,730		
//0	kN	51.2	26.4	110.3	56.8	75.0	38.6	92.7	47.7		
1"	lb	15,020	7,740	32,400	16,690	22,020	11,340	27,210	14,020		
	kN	66.8	34.4	144.1	74.2	97.9	50.4	121.0	62.4		
1 - 1/4"	lb	23,480	12,100	50,640	26,070	34,420	17,730	38,470	19,820		
1 - 1/4	kN	104.4	53.8	225.1	116.0	153.1	78.9	171.1	88.2		

Allowable Tension, $N_{all} = 0.33 \times f_{u} x$ nominal cross sectional area Allowable Shear, $V_{all} = 0.17 \times f_{u} x$ nominal cross section area *The design professional on the job is ultimately responsible for the interpretation of the data provided above.



llowable S	teel Streng	th for Rebar	Allowable St	teel Strength for Rebar			
		Carbon Steel ASTM A	615 Grade 60	Carbon Steel CAN/CSA-G3			SA-G30.18 Gr.400
Rebar Size		Allowable Tension, N _{all}	Allowable Shear, V_{all}	Rebar Size		Allowable Tension, N _{all}	Allowable Shear V_{all}
#3	lb 3,280 1,690		lb	4,016	2,069		
#3	kN	14.6	7.5	10M	kN	17.9	9.2
lb	lb	5,831	3,004	4514	lb	8,052	4,148
#4	kN	25.9	13.4	15M	kN	35.8	18.5
	lb	9,111	4,693	20M	lb	11,960	6,161
#5	kN	40.5	20.9		kN	53.2	27.4
#6	lb	13,121	6,759	25M	lb	19,975	10,290
#0	kN	58.4	30.1	20101	kN	88.9	45.8
#7	lb	17,859	9,200	30M	lb	28,121	14,486
#1	kN	79.4	40.9	30101	kN	125.1	64.4
#8	lb	23,326	12,016	25M	lb	40,089	20,652
#0	kN	103.8	53.4	35M	kN	178.3	91.9
#10	lb	37,623	19,381			cross sectional area	
#10	kN	167.4	86.2	Shear = 0.17 x f *The design profe of the data provide	ssional on th	oss section area ne job is ultimately responsil	ole for the interpret

the interpretation of the data provided above.

1. Above values for reinforcing steel assume the design method is the same as a post-installed adhesive anchor, under the principles of anchor design (failure modes will be concrete breakout, pryout, steel failure, or adhesive bond) and not under the principles of reinforcing steel design (failure modes are typically splitting failure, inadequatebar development etc.). CONSULT AN ENGINEERING DESIGN PROFESSIONAL PRIOR TO USE.

Anchor	Embedment		Allowable Concrete Capacity / Bond Strength							
diameter	Depth	Tension (Ib)			Shear (lb)					
		f' _c = 2,500 psi	f' _c = 4,000 psi	f' _c = 8,000 psi	f' _c = 2,500 psi	f' _c = 4,000 psi	f' _c = 8,000 psi			
	2-1/2"	1,517	1,590	1,704	2,022	2,120	2,272			
5/16"	3-1/8"	1,896	1,987	2,130	2,528	2,650	2,840			
	3-3/4"	2,275	2,385	2,556	3,033	3,179	3,408			
	3"	1,785	1,871	2,005	2,380	2,494	2,673			
3/8"	3-3/4"	2,231	2,338	2,506	2,975	3,118	3,342			
	4-1/2"	2,677	2,806	3,007	3,570	3,741	4,010			
	4"	3,276	3,434	3,680	4,368	4,578	4,907			
1/2"	5"	4,095	4,292	4,600	5,460	5,723	6,134			
	6"	4,914	5,151	5,520	6,552	6,867	7,360			
	5"	5,427	5,688	6,096	7,236	7,584	8,128			
5/8"	6-1/4"	6,784	7,110	7,620	9,045	9,480	10,160			
	7-1/2"	8,140	8,532	9,144	10,854	11,376	12,193			
	6"	6,801	7,128	7,640	9,068	9,505	10,187			
3/4"	7-1/2"	8,501	8,911	9,550	11,335	11,881	12,733			
	9"	10,202	10,693	11,460	13,602	14,257	15,280			
	8"	11,270	11,812	12,660	15,027	15,750	16,880			
1"	10"	14,088	14,766	15,825	18,783	19,687	21,100			
	12"	16,905	17,719	18,990	22,540	23,625	25,320			

1. The above values represent mean ultimate values and allowable working loads. The allowable working loads have been reduced using a safety factor of 4.0 for tension and 3.0 for shear , however, in some cases, such as life safety, safety factors of 10.0 or higher may be necessary. 2. Allowable loads must be checked against steel capacity. The lowest value controls.

3. Tabulated data is applicable to single anchors in normal weight concrete unaffected by edge or spacing reduction factors. V alues are valid for anchors installed into dry concrete in holes drilled with a hammer drill and ANSI carbide drill bit.

4. Service temperatures should remain approximately constant. The maximum long term temperature being 122°F and the maximum short term temperature being 176°F. Short term temperatures are those that occur over brief intervals, for example, diurnal cycling.

5. Linear interpolation is allowed.

*The design professional on the job is ultimately responsible for the interpretation of the data provided above.



Coverage

Anchor size:		(in.)	5/16	3/8	1/2	5/8	3/4	1	1 1/4
Drill Hole Dia	ameter:	(in.)	3/8	1/2	7/16	3/4	7/8	1 1/8	1 3/8
Embedment	Depth:	(in.)	2 3/8	2 3/8	2 3/4	3 1/8	3 3/4	4	5
Estimated Number of Fixing *	Cartridge Volume	300	ml	83	47	53	15	9	5	2

*Number of fixings assumes 30ml wastage in initial extrusion and holes filled to 3/4 full

Anchor size:		(in.)	5/16	3/8	1/2	5/8	3/4	1	1 1/4
Drill Hole Dia	ameter:	(in.)	3/8	1/2	9/16	3/4	7/8	1 1/8	1 3/8
Embedment	Depth:	(in.)	3 1/8	3 3/4	5	6 1/4	7 1/2	10	12 1/2
Estimated Number of Fixing *	Cartridge Volume	300 ml	63	29	17	7	4	2	1

*Number of fixings assumes 30ml wastage in initial extrusion and holes filled to 3/4 full

Anchor size:		(in.)	5/16	3/8	1/2	5/8	3/4	1	1 1/4
Drill Hole Di	ameter:	(in.)	3/8	1/2	9/16	3/4	7/8	1 1/8	1 3/8
Embedment	Depth:	(in.)	3 3/4	4 1/2	6	7 1/2	9	12	15
Estimated Number of Fixing *	Cartridge Volume	300 ml	53	24	14	6	4	1	0

*Number of fixings assumes 30ml wastage in initial extrusion and holes filled to 3/4 full

Application

Solid Substrate Installation Method

1. Drill the hole to the correct diameter and depth. This can be done with either a rotary percussion or rotary machine depending upon the substrate.

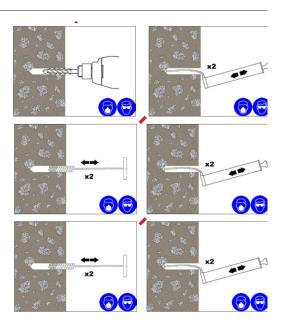
2. Thoroughly clean the hole in the following sequence using the 2K DF Brush with the required extensions and a source of clean compressed air. For holes of 15 3/4" (400mm) or less deep, a 2K Blow Pump may be used:

Blow Clean x2. Brush Clean x2. Blow Clean x2. Brush Clean x2. Blow Clean x2.

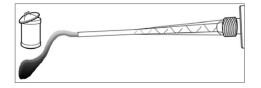
3. Select the appropriate static mixer nozzle for the installation, open the cartridge/foil and screw onto the mouth of the cartridge. Insert the cartridge into a good quality applicator.

4. Extrude the first part of the cartridge to waste until an even color has been achieved without streaking in the resin.

5. If necessary, cut the extension tube to the depth of the hole and push onto the end of the mixer nozzle, and (for rebars 5/8" (16mm) dia. or more) fit the correct resin stopper to the other end. Attach extension tubing and resin stopper.



If the hole collects water after the initial cleaning, this water must be removed before injecting the resin.





6. Insert the mixer nozzle (resin stopper /extension tube if applicable) to the bottom of the hole. Begin to extrude the resin and slowly withdraw the mixer nozzle from the hole ensuring that there are no air voids as the mixer nozzle is withdrawn. Fill the hole to approximately ½ to ¾ full and withdraw the nozzle completely.

7. Insert the clean threaded bar, free from oil or other release agents, to the bottom of the hole using a back and forth twisting motion ensuring all the threads are thoroughly coated. Adjust to the correct position within the stated working time (see table on page 1).

8. Any excess resin should be expelled from the hole evenly around the steel element showing that the hole is full.

This excess resin should be removed from around the mouth of the hole before it sets.

9. Leave the anchor to cure.

Do not disturb the anchor until the appropriate loading/curing time, on page 1, has elapsed depending on the substrate conditions and ambient temperature.

10. Attach the fixture and tighten the nut to the recommended torque.

Do not overtighten.

Hollow Substrate Installation Method

1. Drill the hole to the correct diameter and depth. This should be done with a rotary percussion drilling machine to reduce spalling.

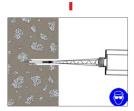
2. Thoroughly clean the hole in the following sequence using a brush with the required extensions and a source of clean compressed air. For holes of 15 3/4" (400mm) or less deep, a blow pump may be used:

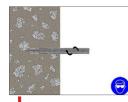
Brush Clean x1. Blow Clean x1.

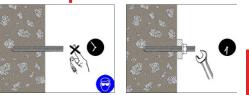
3. Select the appropriate static mixer nozzle for the installation, open the cartridge/foil and screw onto the mouth of the cartridge. Insert the cartridge into a good quality applicator.

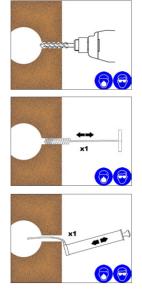
4. Extrude the first part of the cartridge to waste until an even color has been achieved without streaking in the resin.

5. Select the appropriate perforated sleeve and insert into the hole.









If the hole collects water after the initial cleaning, this water must be removed before injecting the resin.





6. Insert the mixer nozzle to the bottom of the perforated sleeve, withdraw 1/12" (2-3mm) then begin to extrude the resin and slowly withdraw the mixer nozzle from the hole ensuring that there are no air voids as the mixer nozzle is withdrawn. Fill the perforated sleeve completely and remove the mixer nozzle and cartridge completely.

7. Insert the clean threaded bar, free from oil or other release agents, to the bottom of the hole using a back and forth twisting motion ensuring all the threads are thoroughly coated. Adjust to the correct position within the stated working time (see table on page 1).

8. Any excess resin should be expelled from the hole evenly around the steel element showing that the hole is full.

This excess resin should be removed from around the mouth of the hole before it sets.

9. Leave the anchor to cure.

Do not disturb the anchor until the appropriate loading/curing time, on page 1, has elapsed depending on the substrate conditions and ambient temperature.

10. Attach the fixture and tighten the nut to the recommended torque.

Do not overtighten.

Limitations

THE NTSB HAS STATED THAT THIS PRODUCT IS APPROVED FOR SHORT TERM LOADS ONLY AND SHOULD NOT BE USED IN SUSTAINED TENSILE LOAD ADHESIVE ANCHORING APPLICATIONS WHERE ADHESIVE FAILURE COULD RESULT IN A PUBLIC SAFETY RISK. CONSULT A DESIGN PROFESSIONAL PRIOR TO USE.

*The design professional on the job is ultimately responsible for the interpretation of the data provided on the product data sheet

- Not for use in overhead applications.
- Not for use in cracked concrete.
- Minimum Application Temperature 14°F (-10°C)
- Maximum Application Temperature 86°F (30°C)

RIOR TO EACH USE OF ANY SIKA PRODUCT. THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE-PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

KEEP CONTAINER TIGHTLY CLOSED, KEEP OUT OF REACH OF CHILDREN, NOT FOR INTERNAL CONSUMPTION, FOR INDUSTRIAL USE ONLY, FOR PROFESSIONAL USE ONLY.

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart-ment at 800.933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.

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RESPONSIBLE CARE



Sikadur[®] AnchorFix-2

High performance, two component adhesive anchoring system

Description	Sikadur [®] AnchorFix-2 adhesi two component adhesive and		1	0 1						
Where to Use	 Uncracked concrete Hard natural stone Solid rock Solid masonry 									
Advantages	 Fixing close to free edges. Versatile range of embedn Anchoring without expansi Component volume ratio o Extended working time. 	nent depths. on forces.								
Packaging	10.1 fl.oz. (300 ml) or 28.7 fl.	.oz. (850 ml) cartridge								
Approvals	MIXING METHODS AND	UES Report #0327 for 1 by UL. BASED UPON STATISTIC EQUIPMENT, TEMPERAT AL SITE CONDITIONS AN When stored correc manufacture. Cartridges should bo	threaded bars only. AL VARIATIONS DEPENDING FURE, APPLICATION METHO ID CURING CONDITIONS. tly, the shelf life will be 15 mon e stored in their original packag 41°F to +77°F) out of direct su	ths from the date of ging, the correct way up,						
	Working & Loading Times	Working & Loading Times								
	Cartridge Temperature	T Work (minutes)	Base Material Temperature	T Load (hours)						
	Minimum +41°F	12	+14°F to +32°F**	24 hours						
		12	+32°F to +41°F	180 minutes						

	two component adhesive anchor system for threaded bars in uncracked concrete.											
o Use	 Uncracked concrete Hard natural stone Solid rock Solid masonry 											
iges	 Fixing close to free edges. Versatile range of embedment depths. Anchoring without expansion forces. Component volume ratio of 10:1. Extended working time. 											
ng	10.1 fl.oz. (300 ml) or 28.7 fl.oz. (850 ml) cartridge											
als	 EESR to AC308 by ICC-ES PENDING. ESR to AC308 by IAPMO-UES Report #0327 for threaded bars only. Certified to ANSI / NSF - 61 by UL. 											
	TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Shelf Life When stored correctly, the shelf life will be 15 months from the date of manufacture. Storage Conditions Cartridges should be stored in their original packaging, the correct way up, in cool conditions (+41°F to +77°F) out of direct sunliaht.											
	Working & Loading Times											
	``````````````````````````````````````											
	Working & Loading Times											
	Working & Loading Times           Cartridge Temperature         T Work (minutes)         Base Material Temperature         T Load (hours)											
	Working & Loading Times         Cartridge Temperature       T Work (minutes)       Base Material Temperature       T Load (hours)         Minimum +41°F       12       +14°F to +32°F**       24 hours											
	Working & Loading Times           Cartridge Temperature         T Work (minutes)         Base Material Temperature         T Load (hours)           Minimum +41°F         12         +14°F to +32°F**         24 hours           12         +32°F to +41°F         180 minutes											
	Working & Loading Times           Cartridge Temperature         T Work (minutes)         Base Material Temperature         T Load (hours)           Minimum +41°F         12         +14°F to +32°F**         24 hours           12         +32°F to +41°F         180 minutes           +41°F to +50°F         8         +41°F to +50°F         100 minutes											
	Working & Loading Times         Cartridge Temperature       T Work (minutes)       Base Material Temperature       T Load (hours)         Minimum +41°F       12       +14°F to +32°F**       24 hours         12       +32°F to +41°F       180 minutes         +41°F to +50°F       8       +41°F to +50°F       100 minutes         +50°F to +68°F       4       +50°F to +68°F       70 minutes											

T Work is the typical time to gel at the highest temperature in the range T Load is the typical time to reach full capacity

*The design professional on the job is ultimately responsible for the interpretation of the data provided above.



Installation Speci	fication									
Property	Sym- bol	Unit								
Threaded Rod Diameter	d _a	in	5/16	3/8	1/2	5/8	3/4	1		
Drill Bit Diameter	d _o	in	3/8	1/2	9/16	11/16	13/16	1-1/16		
Cleaning Brush Size	d _b	in	0.5	551	0.7	787	1.1	142		
Minimum Embedment Depth	h _{ef,min}	in	2-3/8	2-3/4	3-1/8	3-3/4	4	4		
Maximum Embedment Depth	h _{ef,max}	in	6-1/4	7-1/2	10	12-1/2	15	20		
Minimum Con- crete Thickness	h _{min}	in		-	1.	5 h _{ef}				
Critical Anchor Spacing	S _{cr}	in			2.0	) c _{ac}				
Critical Edge Distance	C _{ac}	in		c _{ac} =h _{ef} * (t _{k, uncr} /1160) ^{0.4} * max[3.1 - 0.7(h /h _{el} ); 1.4]						
Maximum Tightening Torque	T _{inst}	ft.lb	7.5	15	25	55	80	120		

*The design professional on the job is ultimately responsible for the interpretation of the data provided above.

Allowab	le Steel S	trength for Th	readed Rods						
		1554 Grad	eel ASTM F e 36 (A307 .C)		eel ASTM A 3 B7		teel ASTM F CW		teel ASTM F SH
	Diameter in)	Allowable Tension, Nall	Allowable Shear, Vall	Allowable Tension, Nall	Allowable Shear, Vall	Allowable Tension, Nat	Allowable Shear, Va⊫	Allowable Tension, Na⊫	Allowable Shear, Vall
3/8"	lb	2,110	1,080	4,550	2,345	3,630	1,870	4,190	2,160
3/0	kN	9.4	4.8	20.2	10.4	16.1	8.3	18.6	9.6
1/0"	lb	3,750	1,930	8,100	4,170	6,470	3,330	7,450	3,840
1/2	1/2" kN 16.7	16.7	8.6	36.0	18.5	28.8	14.8	33.1	17.1
5/8"	lb	5,870	3,030	12,655	6,520	10,130	5,220	11640	6,000
0/0	kN	26.1	13.5	56.3	29.0	45.1	23.2	51.8	26.7
3/4"	lb	8,460	4,360	18,220	9,390	12,400	6,390	15,300	7,880
3/4	kN	37.6	19.4	81.0	41.8	55.2	28.4	68.1	35.1
7/8"	lb	11,500	5,930	24,800	12,780	16,860	8,680	20,830	10,730
//0	kN	51.2	26.4	110.3	56.8	75.0	38.6	92.7	47.7
1"	lb	15,020	7,740	32,400	16,690	22,020	11,340	27,210	14,020
I	kN	66.8	34.4	144.1	74.2	97.9	50.4	121.0	62.4
1 - 1/4"	lb	23,480	12,100	50,610	26,070	34,420	17,730	38,470	19,820
1 - 1/4	kN	104.4	53.8	225.1	116.0	153.1	78.9	171.1	88.2

Allowable Tension,  $N_{all} = 0.33 \times f_u \times nominal cross sectional area$  $Allowable Shear, <math>V_{all} = 0.17 \times f_u \times nominal cross section area$ *The design professional on the job is ultimately responsible for the interpretation of the data provided above.



Allowable St	eel Streng	th for Rebar		Allowable St	eel Streng	th for Rebar	
		Carbon Steel ASTM A	615 Grade 60			Carbon Steel CAN/CS	SA-G30.18 Gr.400
Rebar	Size	Allowable Tension, N _{all}	Allowable Shear, $V_{all}$	Rebar S	Size	Allowable Tension, N _{all}	Allowable Shear, $V_{all}$
#0	lb	3,280	1,690	4014	lb	4,016	2,069
#3	kN	14.6	7.5	10M	kN	17.9	9.2
#4	lb	5,831	3,004	4514	lb	8,052	4,148
#4	kN	25.9	13.4	15M	kN	35.8	18.5
45	lb	9,111	4,693	2014	lb	11,960	6,161
#5	kN	40.5	20.9	20M	kN	53.2	27.4
#0	lb	13,121	6,759	0514	lb	19,975	10,290
#6	kN	58.4	30.1	25M	kN	88.9	45.8
47	lb	17,859	9,200	0014	lb	28,121	14,486
#7	kN	79.4	40.9	30M	kN	125.1	64.4
#0	lb	23,326	12,016	0514	lb	40,089	20,652
#8	kN	103.8	53.4	35M	kN	178.3	91.9
#40	lb	37,623	19,381			ross sectional area	
#10	kN	167.4	86.2	Shear = 0.17 x f _u *The design profe		oss section area e job is ultimately responsil	ble for the interpretatio

*The design professional on the job is ultimately responsible for the interpretation of the data provided above.

1. Above values for reinforcing steel assume the design method is the same as a post-installed adhesive anchor, under the principles of anchor design (failure modes will be concrete breakout, pryout, steel failure, or adhesive bond) and not under the principles of reinforcing steel design (failure modes are typically splitting failure, inadequate bar development etc..). CONSULT AN ENGINEERING DESIGN PROFESSIONAL PRIOR TO USE.

of the data provided above.

Allowable Lo	ad Data in Tensio	on and Shear						
			Allow	able Concrete Ca	apacity / Bond Str	ength		
Anchor	Embedment		Tension (lb)		Shear (lb)			
Anchor Diameter 5/16" 3/8" 1/2" 5/8" 3/4"	Depth	f' _c = 2,500 psi	f' _c = 4,000	f' _c = 8,000	f' _c = 2,500	f' _c = 4,000	f' _c = 8,000	
	2-3/8"	1,390	1,457	1,562	1,854	1,943	2,082	
5/16"	3-1/16"	1,793	1,879	2,014	2,390	2,505	2,685	
	3-3/4"	2,195	2,301	2,466	2,927	3,068	3,288	
	2-3/8"	1,507	1,579	1,693	2,009	2,106	2,257	
3/8"	3-7/16"	2,181	2,286	2,450	2,908	3,048	3,266	
	4-1/2"	2,855	2,992	3,207	3,806	3,990	4,276	
	2-3/4"	2,397	2,513	2,693	3,197	3,350	3,591	
1/2"	4-3/8"	3,814	3,998	4,285	5,085	5,330	5,713	
	6"	5,231	5,482	5,876	6,974	7,310	7,835	
	3-1/8"	3,065	3,212	3,443	4,087	4,283	4,591	
5/8"	5-5/16"	5,210	5,461	5,853	6,947	7,281	7,804	
	7-1/2"	7,356	7,710	8,263	9,808	10,280	11,017	
	3-1/2"	3,495	3,663	3,926	4,659	4,884	5,234	
3/4"	6-1/4"	6,240	6,541	7,010	8,320	8,721	9,347	
	9"	8,986	9,418	10,094	11,981	12,558	13,459	
	4"	5,378	5,637	6,042	7,171	7,516	8,056	
1"	8"	10,757	11,274	12,084	14,342	15,033	16,112	
	12"	16,135	16,912	18,125	21,514	22,549	24,167	

1. The above values represent mean ultimate values and allowable working loads. The allowable working loads have been reduced using a safety factor of 4.0 for tension and 3.0 for shear, however, in some cases, such as life safety, safety factors of 10.0 or higher may be necessary.

2. Allowable loads must be checked against steel capacity. The lowest value controls.

3. Tabulated data is applicable to single anchors in normal weight concrete unaffected by edge or spacing reduction factors. Values are valid for anchors installed into dry concrete in Addition of data is applicable to support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the support of the supp

temperatures are those that occur over brief intervals, for example, diurnal cycling. 5. Linear interpolation is allowed.

*The design professional on the job is ultimately responsible for the interpretation of the data provided above.



#### Coverage

Anchor size:		(in.)		5/16	3/8	1/2	5/8	3/4	1	1 1/4
Drill Hole Dia	ameter:	(in.)		3/8	1/2	9/16	3/4	7/8	1 1/8	1 3/8
Embedment	bedment Depth: (in.)		2 3/8	2 3/8	2 3/4	3 1/8	3 3/4	4	5	
Estimated			ml	83	47	32	15	9	5	2
Number of Volume Fixing *		850	ml	254	143	97	48	29	16	8

*Number of fixings assumes 30ml wastage in initial extrusion and holes filled to 3/4 full

Anchor size:	hor size: (in.)		5/16	3/8	1/2	5/8	3/4	1	1 1/4	
Drill Hole Dia	ameter:	(in.	)	3/8	1/2	9/16	3/4	7/8	1 1/8	1 3/8
Embedment	Depth:	(in.	)	3 1/8	3 3/4	5	6 1/4	7 1/2	10	12 1/2
Estimated	Cartridge	300	ml	63	29	17	7	4	2	1
Number of Volume Fixing *		850	ml	193	90	53	24	14	6	3

*Number of fixings assumes 30ml wastage in initial extrusion and holes filled to 3/4 full

Anchor size:		(in.)		5/16	3/8	1/2	5/8	3/4	1	1 1/4
Drill Hole Di	ameter:	(in.)		3/8	1/2	9/16	3/4	7/8	1 1/8	1 3/8
Embedment	Depth:	(in	)	3 3/4	4 1/2	6	7 1/2	9	12	15
Estimated			53	24	14	6	4	1	0	
Number of Volume Fixing *		850	ml	161	75	44	20	12	5	2

*Number of fixings assumes 30ml wastage in initial extrusion and holes filled to 3/4 full

#### Application

#### Solid Substrate Installation Method

1. Drill the hole to the correct diameter and depth. This can be done with either a rotary percussion or rotary hammer drilling machine depending upon the substrate.

2. Thoroughly clean the hole in the following sequence using the 2K DF Brush with the required extensions and a source of clean compressed air. For holes of 15 3/4" (400mm) or less deep, a 2K Blow Pump may be used:

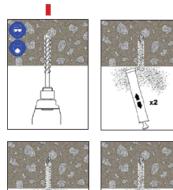
Blow Clean x2. Brush Clean x2. Blow Clean x2. Brush Clean x2. Blow Clean x2.

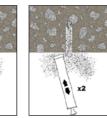
3. Select the appropriate static mixer nozzle for the installation, open the cartridge/foil pack and screw nozzle onto the mouth of the cartridge. Insert the cartridge into a good quality applicator.

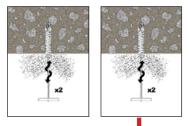
4. Extrude the first part of the cartridge (at least dispense three full strokes) to waste until an even color has been achieved without streaking in the resin before injecting the resin into the drilled hole.

5. If necessary, cut the extension tube to the depth of the hole and push onto the end of the mixer nozzle, and (for rebars 8" (16mm) dia. or more) fit the correct resin stopper to the other end. Attach extension tubing and resin stopper.

6. Insert the mixer nozzle (resin stopper/extension tube if applicable) to the bottom of the hole. Begin







hole collects water after the initial cleaning, this r must be removed before injecting the resin.



to extrude the resin and slowly withdraw the mixer nozzle from the hole ensuring that there are no air voids as the mixer nozzle is withdrawn. Fill the hole to approximately 1/2 to 3/4 full and withdraw the nozzle completely.

7. Insert the clean threaded bar, free from oil or other release agents, to the bottom of the hole using a back and forth twisting motion ensuring all the threads are thoroughly coated. Adjust to the correct position within the stated working time (see table on page 1).

8. Any excess resin will be expelled from the hole evenly around the steel element showing that the hole is full. This excess resin should be removed from around the mouth of the hole before it sets.

9 Leave the anchor to cure

Do not disturb the anchor until the appropriate loading time, on page 1, has elapsed depending on the substrate conditions and ambient temperature.

10. Attach the fixture and tighten the nut to the recommended torque.

#### Do not overtighten as it could adversely affect product performance.

NOTE: Please refer to figure 5A & 5B of the IAPMO Report No. 0327 for detailed installation instructions.

Limitations

THE NTSB HAS STATED THAT THIS PRODUCT IS APPROVED FOR SHORT TERM LOADS ONLY AND SHOULD NOT BE USED IN SUSTAINED TENSILE LOAD ADHESIVE ANCHORING APPLICATIONS WHERE ADHESIVE FAILURE COULD RESULT IN A PUBLIC SAFETY RISK. CONSULT A DESIGN PROFESSIONAL PRIOR TO USE.

*The design professional on the job is ultimately responsible for the interpretation of the data provided on the product data sheet.

- Not for use in overhead applications.
- Not for use in cracked concrete.
- Please refer to section 5.0 for conditions of use in the IAPMO Evaluation Report #0327. This report is available on Sika and IAPMO's websites.
- Minimum Application Temperature 14°F (-10°C)
- Maximum Application Temperature 86°F (30°C)

RIOR TO EACH USE OF ANY SIKA PRODUCT. THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-RENT PRODUCT DATA SHEET. PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE

KEEP CONTAINER TIGHTLY CLOSED, KEEP OUT OF REACH OF CHILDREN, NOT FOR INTERNAL CONSUMPTION, FOR INDUSTRIAL USE ONLY, FOR PROFESSIONAL USE ONLY.

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.

Sika Mexicana S.A. de C.V.

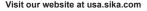
Fracc. Industrial Balvanera

Corregidora, Queretaro

Fax: 52 442 2250537

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Carretera Libre Celaya Km. 8.5



(R)

Sika Corporation

201 Polito Avenue Lyndhurst, NJ 07071 Phone: 800-933-7452 Fax: 201-933-6225

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1-800-933-SIKA NATIONWIDE

Note for decreased installation temperature: When

installing EASF at decreased installation temperature  $(+32^{\circ}F < T < 50^{\circ}F (0^{\circ}C < T < +10^{\circ}C))$  the cartridge must

The RM nozzle consists of two pieces: the component containing the mixer elements, and an extension piece. The extension piece must be snapped off the component contain-

ing the mixer elements before use. The two pieces are then

pushed together until a positive engagement is felt.

be conditioned to +68°F (+20°C)

Note for use of RM nozzle:





# Sika[®] AnchorFix-2 Arctic

# High performance, two component, low temperature adhesive anchor system

Description	Sika® AnchorFix-2 Arctic adhesive anchor system has been specifically formulated as a high performance, two component, low temperature adhesive anchor system for threaded bars in uncracked concrete.
Where to Use	<ul> <li>Uncracked concrete</li> <li>Hard natural stone</li> <li>Solid rock</li> <li>Solid masonry</li> </ul>
Advantages	<ul> <li>Fixing close to free edges.</li> <li>Versatile range of embedment depths.</li> <li>Anchoring without expansion forces.</li> <li>Component volume ratio of 1:1.</li> <li>Extended working time.</li> </ul>
Packaging	28.7 fl.oz. (850 ml) cartridge
Approval	European Technical Approval (ETA) according to ETAG001-5.

#### **Typical Data**

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life	When stored correctly, the shelf life will be for a minimum of 12 months from the date of manufacture.
Storage Conditions	Cartridges should be stored in their original packaging, the correct way up, in cool conditions (+32°F to +77°F) out of direct sunlight.

Working & Loading Time	Norking & Loading Times								
Cartridge Temperature	T Work (minutes)	Base Material Temperature	T Load						
Minimum +23°F	15	-14.8°F - +14°F*	36 hours						
	15	+14°F to +23°F	12 hours						
	15	+23°F to +32°F	100 minutes						
+23°F to +41°F	10	+32°F to +41°F	75 minutes						
+41°F to +50°F	5	+41°F to +50°F	50 minutes						
+50°F to +68°F	2.5	+50°F to +68°F	50 minutes						
+68°F	100 seconds	+68°F	20 minutes						
T Work is the typical time to g	el at the highest temperature i	n the range							

T Load is the typical time to reach full capacity

*This application is not covered by the scope of the ETA or any other approval for this product. **The design professional on the job is ultimately responsible for the interpretation of the data provided above.



Installation Specifica	Installation Specification										
Property	Symbol	Unit									
Threaded Rod Diameter	d _a	in	5/16	3/8	1/2	5/8	3/4	1	1-1/4		
Drill Bit Diameter	d _。	in	3/8	1/2	9/16	11/16	13/16	1-1/16	1-1/2		
Cleaning Brush Size	d _b	in	0.5	551	0.1	787	1.1	1.142 1-2/3			
Minimum Embedment Depth	h _{ef,min}	in	2-1/2	3	4	5	6	8	10		
Maximum Embedment Depth	h _{ef,max}	in	6-1/4	7-1/2	10	12-1/2	15	20	25		
Minimum Concrete Thickness	h _{min}	in		h _{ef} + 1-1/	/4 in ≥ 4 in			h _{ef} + 2 do			
Critical Anchor Spacing	S _{cr}	in				3.0 h _{ef}					
Critical Edge Distance	C _{ac}	in		1.5 h _{ef}							
Maximum Tightening Torque	T _{inst}	ft.lb	7.5	15	25	55	80	120	200		

*The design professional on the job is ultimately responsible for the interpretation of the data provided above.

Allowab	le Steel S	trength for Th	readed Rods						
		ASTM F 15	n Steel 54 Grade 36 7 Gr.C)	Carbor ASTM A			ss Steel 593 CW	Stainless Steel ASTM F 593 SH	
Anchor Diameter (in)		Allowable Tension, N _{all}	Allowable Shear, $V_{all}$	Allowable Tension, N _{all}	Allowable Shear, $V_{all}$	Allowable Tension, N _{all}	Allowable Shear, V _{all}	Allowable Tension, N _{all}	Allowable Shear, V _{all}
3/8"	lb	2,110	1,080	4,550	2,345	3,360	1,870	4,190	2,160
3/6	kN	9.4	4.8	20.2	10.4	16.1	8.3	18.6	9.6
1/2"	lb	3,750	1,930	8,100	4,170	6,470	3,330	7,450	3,840
1/2	kN	16.7	8.6	36.0	18.5	28.8	14.8	33.1	17.1
5/8"	lb	5,870	3,030	12,655	6,520	10,130	5,220	11,640	6,000
5/6	kN	26.1	13.5	56.3	29.0	45.1	23.2	51.8	26.7
3/4"	lb	8,460	4,360	18,220	9,390	12,400	6,390	15,300	7,880
3/4	kN	37.6	19.4	81.0	41.8	55.2	28.4	68.1	35.1
7/8"	lb	11,500	5,930	24,800	12,780	16,860	8,680	20,830	10,730
//0	kN	51.2	26.4	110.3	56.8	75.0	38.6	92.7	47.7
1"	lb	15,020	7,740	32,400	16,690	22,020	11,340	27,210	14,020
I	kN	66.8	34.4	144.1	74.2	97.9	50.4	121.0	62.4
1 - 1/4"	lb	23,480	12,100	50,640	26,070	34,420	17,730	38,470	19,820
1 - 1/4	kN	104.4	53.8	225.1	116.0	153.1	78.9	171.1	88.2

Allowable Tension, N_{ail} =  $0.33 \times f_u x$  nominal cross sectional area. Allowable Shear, V_{ail} =  $0.17 \times f_u x$  nominal cross section area. *The design professional on the job is ultimately responsible for the interpretation of the data provided above.



llowable S	teel Streng	th for Rebar		Allowable St	eel Streng	th for Rebar	
		Carbon Steel ASTM A	615 Grade 60			Carbon Steel CAN/CS	SA-G30.18 Gr.400
Rebar	Size	Allowable Tension, N _{all}	Allowable Shear, $V_{all}$	Rebar S	Size	Allowable Tension, N _{all}	Allowable Shear, V _{all}
#3	lb	3,280	1,690	4014	lb	4,016	2,069
#3	kN	14.6 7.5	TON	kN	17.9	9.2	
44.4	lb		4514	lb	8,052	4,148	
#4	kN	25.9	13.4	15M	kN	35.8	18.5
	lb	9,111	4,693	0014	lb	11,960	6,161
#5	kN	40.5	20.9	20M	kN	53.2	27.4
#0	lb	13,121	6,759	0514	lb	19,975	10,290
#6	kN	58.4	30.1	25M	kN	88.9	45.8
#7	lb	17,859	9,200	0.014	lb	28,121	14,486
#1	kN	79.4	40.9	30M	kN	125.1	64.4
#8	lb	23,326	12,016	0514	lb	40,089	20,652
#0	kN	103.8	53.4	35M	kN	178.3	91.9
#10	lb	37,623	19,381	Tension = 0.33 x f	x nominal o	cross sectional area	•
#10	kN	167.4	86.2	Shear = 0.17 x f		oss section area ne job is ultimately responsil	ole for the interpretation

*The design professional on the job is ultimately responsible for the interpretation of the data provided above.

1. Above values for reinforcing steel assume the design method is the same as a post-installed adhesive anchor, under the principles of anchor design (failure modes will be concrete breakout, pryout, steel failure, or adhesive bond) and not under the principles of reinforcing steel design (failure modes are typically splitting failure, inadequatebar development etc..). CONSULT AN ENGINEERING DESIGN PROFESSIONAL PRIOR TO USE.

of the data provided above.

Anchor	Embedment		Allowa	ble Concrete Ca	pacity / Bond St	rength	
diameter	Depth		Tension (lb)			Shear (lb)	
		f' _c = 2,500 psi	f' _c = 4,000 psi	f' _c = 8,000 psi	f' _c = 2,500 psi	f' _c = 4,000 psi	f' _c = 8,000 psi
	2-1/2"	1,517	1,590	1,704	2,022	2,120	2,272
5/16"	3-1/8"	1,896	1,987	2,130	2,528	2,650	2,840
	3-3/4"	2,275	2,385	2,556	3,033	3,179	3,408
3/8"	3"	1,785	1,871	2,005	2,380	2,494	2,673
	3-3/4"	2,231	2,338	2,506	2,975	3,118	3,342
	4-1/2"	2,677	2,806	3,007	3,570	3,741	4,010
	4"	3,276	3,434	3,680	4,368	4,578	4,907
1/2"	5"	4,095	4,292	4,600	5,460	5,723	6,134
	6"	4,914	5,151	5,520	6,552	6,867	7,360
	5"	5,427	5,688	6,096	7,236	7,584	8,128
5/8"	6-1/4"	6,784	7,110	7,620	9,045	9,480	10,160
	7-1/2"	8,140	8,532	9,144	10,854	11,376	12,193
	6"	6,801	7,128	7,640	9,068	9,505	10,187
3/4"	7-1/2"	8,501	8,911	9,550	11,335	11,881	12,733
	9"	10,202	10,693	11,460	13,602	14,257	15,280
	8"	11,270	11,812	12,660	15,027	15,750	16,880
1"	10"	14,088	14,766	15,825	18,783	19,687	21,100
	12"	16,905	17,719	18,990	22,540	23,625	25,320

1. The above values represent mean ultimate values and allowable working loads. The allowable working loads have been reduced using a safety factor of 4.0 for tension and 3.0 for shear, however, in some cases, such as life safety, safety factors of 10.0 or higher may be necessary.

Allowable loads must be checked against steel capacity. The lowest value controls.

3. Tabulated data is applicable to single anchors in normal weight concrete unaffected by edge or spacing reduction factors. Values are valid for anchors installed into dry concrete in holes drilled with a hammer drill and ANSI carbide drill bit.

4. Service temperatures should remain approximately constant. The maximum long term temperature being 122°F and the maximum short term temperature being 176°F. Short term temperatures are those that occur over brief intervals, for example, diurnal cycling.

5. Linear interpolation is allowed.

*The design professional on the job is ultimately responsible for the interpretation of the data provided above.



#### Coverage

Anchor size:		(in.)	5/16	3/18	1/2	5/8	3/4	1	1 1/4
Drill Hole Diameter:		(in.)	3/8	1/2	9/16	3/4	7/8	1 1/8	1 3/8
Embedment Depth:		(in.)	2 3/8	2 3/8	2 3/4	3 1/8	3 3/4	4	5
Estimated Number of Fixing *	Cartridge Volume	850 ml	254	143	97	48	29	16	8

*Number of fixings assumes 30ml wastage in initial extrusion and holes filled to 3/4 full

Anchor size:		(in.)	5/16	3/8	1/2	5/8	3/4	1	1 1/4
Drill Hole Diameter:		(in.)	3/8	1/2	9/16	3/4	7/8	1 1/8	1 3/8
Embedment Depth:		(in.)	3 1/8	3 3/4	5	6 1/4	7 1/2	10	12 1/2
Estimated Number of Fixing *	Cartridge Volume	850 ml	193	90	53	24	14	6	3

*Number of fixings assumes 30ml wastage in initial extrusion and holes filled to 3/4 full

Anchor size:		(in.)	5/16	3/8	1/2	5/8	3/4	1	1 1/4
Drill Hole Diameter:		(in.)	3/8	1/2	9/16	3/4	7/8	1 1/8	1 3/8
Embedment	Depth:	(in.)	3 3/4	4 1/2	6	7 1/2	9	12	15
Estimated Number of Fixing *	Cartridge Volume	850 ml	161	75	44	20	12	5	2

*Number of fixings assumes 30ml wastage in initial extrusion and holes filled to 3/4 full

#### Application

#### Installation Method (Solid Substrates)

1. Drill the hole to the correct diameter and depth. This can be done with either a rotary percussion or rotary machine depending upon the substrate.

2. Thoroughly clean the hole in the following sequence using a brush with the required extensions and a source of clean compressed air. For holes of 15.8 in. (400mm) or less deep, a Blow Pump may be used:

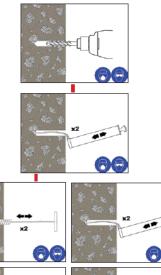
Blow Clean x2. Brush Clean x2. Blow Clean x2. Brush Clean x2. Blow Clean x2.

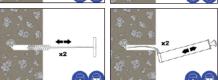
3. Select the appropriate static mixer nozzle for the installation, open the cartridge/foil and screw onto the mouth of the cartridge. Insert the cartridge into a good quality applicator.

4. Extrude the first part of the cartridge (at least dispense three full strokes) to waste until an even color has been achieved without streaking in the resin before injecting the resin into the drilled hole.

5. If necessary, cut the extension tube to the depth of the hole and push onto the end of the mixer nozzle, and (for rebars .6 in. dia. or more) fit the correct resin stopper to the other end. Attach extension tubing and resin stopper.

6. Insert the mixer nozzle (resin stopper / extension tube if applicable) to the bottom of the hole. Begin to extrude the resin and slowly withdraw the mixer





If the hole collects water after the initial cleaning, this water must be removed before injecting the resin.



nozzle from the hole ensuring that there are no air voids as the mixer nozzle is withdrawn. Fill the hole to approximately  $\frac{1}{2}$  to  $\frac{3}{4}$  full and withdraw the nozzle completely.

7. Insert the clean threaded bar, free from oil or other release agents, to the bottom of the hole using a back and forth twisting motion ensuring all the threads are thoroughly coated. Adjust to the correct position within the stated working time (see table on page 4).

8. Any excess resin should be expelled from the hole evenly around the steel element showing that the hole is full.

This excess resin should be removed from around the mouth of the hole before it sets.

9. Leave the anchor to cure.

Do not disturb the anchor until the appropriate loading/ curing time, on page 4, has elapsed depending on the substrate conditions and ambient temperature.

10. Attach the fixture and tighten the nut to the recommended torque, **do not overtighten**.

#### Hollow Substrate Installation Method

1. Drill the hole to the correct diameter and depth. This should be done with a rotary percussion drilling machine to reduce spalling.

2. Thoroughly clean the hole in the following sequence using the 2K DF Brush with the required extensions and a source of clean compressed air. For holes of 15.6 in. (400mm) or less deep, a Blow Pump may be used:

Brush Clean x1. Blow Clean x1.

3. Select the appropriate static mixer nozzle for the installation, open the cartridge/foil and screw onto the mouth of the cartridge. Insert the cartridge into a good quality applicator.

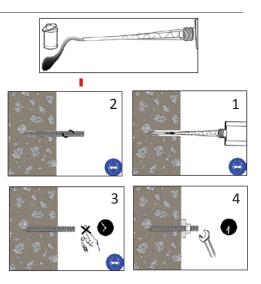
4. Extrude the first part of the cartridge (at least dispense three full strokes) to waste until an even color has been achieved without streaking in the resin before injecting the resin into the drilled hole.

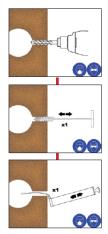
5. Select the appropriate perforated sleeve and insert into the hole.

6. Insert the mixer nozzle to the bottom of the perforated sleeve, withdraw 0.07 - 0.1 in. (2-3mm) then begin to extrude the resin and slowly withdraw the mixer nozzle from the hole ensuring that there are no air voids as the mixer nozzle is withdrawn. Fill the perforated sleeve completely and remove the mixer nozzle and cartridge completely.

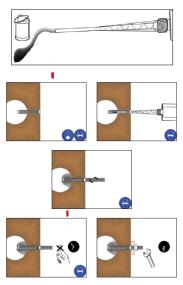
7. Insert the clean threaded bar, free from oil or other release agents, to the bottom of the hole using a back and forth twisting motion ensuring all the threads are thoroughly coated. Adjust to the correct position within the stated working time (see table on page 1).

8. Any excess resin should be expelled from the hole evenly around the steel element showing that the hole is full.





If the hole collects water after the initial cleaning, this water must be removed before injecting the resin.





	mouth of the hole before it sets.
	9. Leave the anchor to cure.
	Do not disturb the anchor until the appropriate loading/ curing time, on page 4, has elapsed depending on the substrate conditions and ambient temperature.
	10. Attach the fixture and tighten the nut to the recommended torque, <b>do not overtighten.</b>
Limitations	THE NTSB HAS STATED THAT THIS PRODUCT IS APPROVED FOR SHORT TERM LOADS ONLY AND SHOULD NOT BE USED IN SUSTAINED TENSILE LOAD ADHESIVE ANCHORING APPLICATIONS WHERE ADHESIVE FAILURE COULD RESULT IN A PUBLIC SAFETY RISK. CONSULT A DESIGN PROFESSIONAL PRIOR TO USE.
	*The design professional on the job is ultimately responsible for the interpretation of the data provided on the product data sheet.
	<ul> <li>Not for use in overhead applications.</li> <li>Not for use in cracked concrete.</li> <li>Minimum Application Temperature -14.8°F (-26°C)</li> <li>Maximum Application Temperature 68°F (20°C)</li> </ul>

This excess resin should be removed from around the

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Product Data Sheet Edition 1.21.2016 Identification no. C420 Sikadur® AnchorFix 500

# Construction

Sika[®] AnchorFix 500 High Performance, two component adhesive anchor system

Description	Sika [®] AnchorFix 500 adhe component adhesive anch transport applications.							
Where to Use	<ul> <li>Adhesive anchoring an</li> <li>As a pick-proof sealan hospitals, and other inst</li> </ul>	t around windows, do			ilities, schools,			
Advantages	<ul> <li>Fixing close to free edg</li> <li>Versatile range of emb</li> <li>Anchoring without expa</li> <li>Component volume rai</li> <li>Extended working time</li> </ul>	edment depths. ansion forces. tio of 1:1.						
Packaging	20 & 55 fl. oz. cartridges.							
Testing         Sika AnchorFix-500 has been tested according to ASTM C 881 and found to meet the requirements           Types I, II and IV, Grade 3, Class C.								
	Typical Data RESULTS MAY DIFFER BASE TEMPERATURE, APPLICATION				,			
	Shelf Life	When stored corre manufacture.	ectly, the shelf life will b	e for 24 months from th	e date of			
	Storage Conditions	Cartridges should be stored in their original packaging, the correct way up, in cool conditions (+50°F to +77°F) out of direct sunlight.						
	Working &	Loading Times						
	Cartridge Te							

	- ( /		
+50°F	75	24	
+68°F	30	8	
+86°F	15	4	
+104°F	7.5	4	
T Work is the typical time to gel at the high T Load is the typical time to reach full capa		ge	

*The design professional on the job is ultimately responsible for the interpretation of the data provided above.



Typical Physical Properties				
Property	Result	Method		
Consistency	Pass	ASTM C 881		
Gel Time	30 minutes	ASTM C 881		
Bond Strength (2 day cure)	2000 psi	ASTM C 882		
Bond Strength (14 day cure)	2500 psi	ASTM C 882		
Compressive Strength (7 day)	>10,000 psi	ASTM D 695		
Compressive Modulus (7 days)	400000 psi	ASTM D 695		
Water Absorption	0.08%	ASTM D 570		
Heat Deflection Temperature	122°F	ASTM D 468		
Linear Coefficient of Shrinkage	0.0003 in/in	ASTM D 2566		
Shore D Hardness	80-85	ASTM D 2240		

*The design professional on the job is ultimately responsible for the interpretation of the data provided above.

Installation Speci	fication										
Property	Sym- bol	Unit									
Threaded Rod Diameter	d _a	in	3/8	1/2	5/8	3/4	7/8	1	1-1/4		
Drill Bit Diameter	d。	in	1/2	9/16	3/4	7/8	1	1-1/8	1-3/8		
Cleaning Brush Size	d _b	-	S14H/F	S16H/F	S22H/F	S24H/F	S27H/F	S31H/F	S38H/F		
Rebar Size	d _a	in	#3	#4	#5	#6	#7	#8	#10		
Drill Bit Diameter	d。	in	9/16	5/8	3/4	7/8	1	1-1/8	1-3/8		
Cleaning Brush Size	d _b	-	S16H/F	S18H/F	S22H/F	S27H/F	S31H/F	S35H/F	S43H/F		
Minimum Embedment Depth	h _{ef,min}	in	3	4	5	6	7	8	10		
Maximum Embedment Depth	h _{ef,max}	in	4 1/2	6	7 1/2	9	10 1/2	12	15		
Minimum Con- crete Thickness	h _{min}	in			<u> </u>	2.0 h _{ef}	<u>.</u>	С			
Critical Anchor Spacing	S _{cr}	in				2.0 c _{ac}					
Critical Edge Distance	C _{ac}	in		$c_{ac} = h_{ef} * (t_{k,uncr} / 1160)^{0.4} * max[3.1 - 0.7(h / h_{ef}); 1.4]$							
Maximum Tightening Torque	T _{inst}	ft.lb	15	30	60	100	125	150	200		

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Allowable	Steel Strer	Allowable Steel Strength for Threaded Rods											
		Carbon Ste 1554 Grade Gr.	e 36 (A307		eel ASTM A B7	Stainless St 593		Stainless St 593					
Anchor Diameter (in)		Allowable Tension, Na⊫	Allowable Shear, Vall	Allowable Tension, Nall	Allowable Shear, Va⊫	Allowable Tension, Nall	Allowable Shear, Vall	Allowable Tension, Nall	Allowable Shear, Vall				
3/8"	lb	2,110	1,080	4,550	2,345	3,630	1,870	4,190	2,160				
3/0	kN	9.4	4.8	20.2	10.4	16.1	8.3	18.6	9.6				
1/2"	lb	3,750	1,930	8,100	4,170	6,470	3,330	7,450	3,840				
1/2	kN	16.7	8,6	36.0	18.5	28.8	14.8	33.1	17.1				
5/8"	lb	5,870	3.030	12,655	6,520	10,130	5,220	11,640	6,000				
5/8	kN	26.1	13,5	56.3	29.0	45.1	23.2	51.8	26.7				
3/4"	lb	8,460	4.360	18,220	9,390	12,400	6,390	15,300	7,880				
3/4	kN	37.6	19.4	81.0	41.8	55.2	28.4	68.1	35.1				
7/0"	lb	11,500	5,930	24,800	12,780	16,860	8,680	20,830	10,730				
7/8"	kN	51.2	26.4	110.3	56.8	75.0	38.6	92.7	47.7				
1"	lb	15,020	7,740	32,400	16,860	22,020	11,340	27,210	14,020				
1	kN	66.8	34.4	144.1	74.2	97.9	50.4	121.0	62.4				
1 - 1/4"	lb	23,480	12,100	50,610	26,070	34,420	17,730	38,470	19,820				
1 - 1/4	kN	104.4	53.8	225.1	116.0	153.1	78.9	171.1	88.2				

Allowable Tension,  $N_{all} = 0.33 \times f_u x$  nominal cross sectional area Allowable Shear,  $V_{all} = 0.17 \times f_u x$  nominal cross section area *The design professional on the job is ultimately responsible for the interpretation of the data provided above.

Allowable Ste	el Strengt	h for Rebar		Allowable Ste	el Strengt	h for Rebar				
		Carbon Steel ASTM A	615 Grade 60		Carbon Steel CAN/CSA-G30.18 Gr					
Rebar S	ize	Allowable Tension, N _{all}	Allowable Shear, V _{all}	Rebar S	iize	Allowable Tension, N _{all}	Allowable Shear, V _{all}			
#3	lb	3,280	1,690		lb	4,016	2,069			
#5	kN	14.6	7.5	10M	kN	17.9	9.2			
#4	lb	5,831	3,004		lb	8,052	4,148			
#4	kN	25.9	13.4	15M	kN	35.8	18.5			
#5	lb	9,111	4,693		lb	11,960	6,161			
#5	kN	40.5	20.9	20M	kN	53.2	27.4			
#6	lb	13,121	6,759		lb	19,975	10,290			
#0	kN	58.4	30.1	25M	kN	88.9	45.8			
#7	lb	17,859	9,200		lb	28,121	14,486			
#7	kN	79.4	40.9	30M	kN	125.1	64.4			
#8	lb	23,326	12,016		lb	40,089	20,652			
#8	kN	103.8	53.4	35M	kN	178.3	91.9			
#10	lb	37,623	19,381	Tension = 0.33	x fx nomi	inal cross sectional are	a			
#10	kN	167.4	86.2	Tension = $0.33 \times f_u x$ nominal cross sectional area Shear = $0.17 \times f_u x$ nominal cross section area						

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1. Above values for reinforcing steel assume the design method is the same as a post-installed adhesive anchor, under the principles of anchor design (failure modes will be concrete breakout, pryout, steel failure, or adhesive bond) and not under the principles of reinforcing steel design (failure modes are typically splitting failure, inadequate bar development etc.). CONSULT AN ENGINEERING DESIGN PROFESSIONAL PRIOR TO USE.



#### Coverage

Anchor size	:	(in.)	5/16	3/8	1/2	5/8	3/4	1	1 1/4
Drill Hole Diameter:		(in.)	3/8	1/2	9/16	3/4	7/8	1 1/8	1 3/8
Embedmen	t Depth:	(in.)	2 3/8	2 3/8	2 3/4	3 1/8	3 3/4	4	5
Estimated	Cartridge	600 ml	176	99	67	33	20	11	6
Number Volume of Fixing *		1500 ml	455	256	175	86	53	30	16

*Number of fixings assumes 30ml wastage in initial extrusion and holes filled to 3/4 full

Anchor size		(in.)	5/16	3/8	1/2	5/8	3/4	1	1 1/4
Drill Hole Diameter:		(in.)	3/8	1/2	9/16	3/4	7/8	1 1/8	1 3/8
Embedmen	t Depth:	(in.)	3 1/8	3 3/4	5	6 1/4	7 1/2	10	12 1/2
Estimated	Cartridge	600 ml	134	62	37	16	10	4	2
Number Volume of Fixing *		1500 ml	346	162	96	43	26	12	6

*Number of fixings assumes 30ml wastage in initial extrusion and holes filled to 3/4 full

#### Application

#### Installation Method (Solid Substrates)

1. Drill hole to required depth using a hammer drill with the drill bit that is appropriate to match the hole diameter as stated.

2. Insert the air lance to the bottom of the hole and depress the trigger for 2 seconds. The compressed air used should be at a minimum pressure of 6bar / 90psi and should be free from oil and / or water. Repeat the operation. If using the hand pump, give two blowing operations.

3. Select the correct size brush (see page 9, Installation Accessories). Ensure that the brush is in good condition and check that the diameter of the brush is correct for the size of the drilled hole. Insert the brush to the bottom of the hole and pull out using a back and forth twisting motion. Repeat the operation.

- 4. Repeat 2
- 5. Repeat 3
- 6. Repeat 2

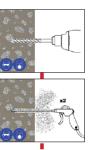
7. Select the appropriate static mixer nozzle for the installation and screw onto the mouth of the cartridge. Insert the cartridge into a good quality extrusion gun after checking that the extrusion gun is in good working order.

8. Extrude the first part of the cartridge to waste until an even colour has been achieved without streaking in the resin.

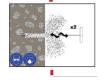
9. If necessary, attach extension tubing and resin stopper.

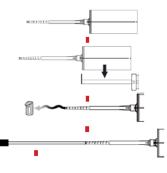
10. Insert the mixer nozzle to the bottom of the hole. Begin to extrude the resin and slowly withdraw the mixer nozzle from the hole ensuring that there are no air voids as the mixer nozzle is withdrawn. Fill the hole to approximately  $\frac{1}{2}$  to  $\frac{3}{4}$  full and remove the mixer nozzle and cartridge completely.

11. Take the steel element of the anchor. This should be









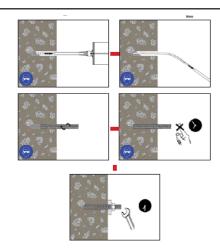


free from oil or other release agents. Insert the steel element to the bottom of the hole using a back and forth twisting motion. Any excess resin should be expelled from the hole evenly around the steel element.

12. Clean any excess resin from around the mouth of the hole.

13. Leave the anchor to cure. Do not disturb the anchor until the appropriate working time has elapsed depending on the substrate conditions and ambient temperature.

14. Attach the fixture as required.



#### **Overhead Substrate Installation Method**

1. Using the SDS Hammer Drill with a carbide tipped drill bit of the appropriate size, drill the hole to suit the anchor.

2. a) Select the correct Air Lance, insert to the bottom of the hole and depress the trigger for 2 seconds. The compressed air must be clean – free from water and oil – and at a minimum pressure of 90psi (6bar). Perform the blowing operation twice.
b) If a Manual Pump is to be used, complete the blowing operation as above using the full stroke of the pump and blow the hole clean twice.

3. Select the correct size Hole Cleaning Brush. Ensure that the brush is in good condition and the correct diameter. Insert the brush to the bottom of the hole and withdraw with a twisting motion. There should be positive interaction between the steel bristles of the brush and the sides of the drilled hole. Perform the brushing operation twice.

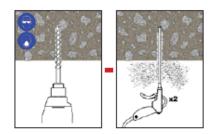
4. Repeat 2 (a) or (b)

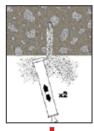
5. Repeat 3

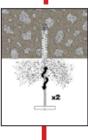
6. Repeat 2 (a) or (b)

7. Select the appropriate static mixer nozzle and attach to the cartridge. Check the Dispensing Tool is in good working order. Place the cartridge into the dispensing tool.

Note: The QH nozzle is in two sections. One section contains the mixing elements and the other section is an extension piece. Connect the extension piece







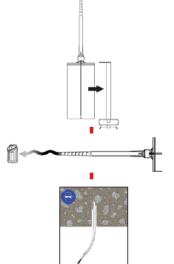


to the mixing section by pushing the two sections firmly together until a positive engagement is felt.

8 Extrude some resin to waste until an even-colored mixture is extruded. The cartridge is now ready for use.

9. As specified in the Installation Accessories Table, attach an extension tube with resin stopper (if required) to the end of the mixing nozzle with a push fit. (The extension tubes may be pushed into the resin stoppers and are held in place with a coarse internal thread).

10. Insert the mixing nozzle to the bottom of the hole. Extrude the resin and slowly withdraw the nozzle from the hole. Ensure no air voids are created as the nozzle is withdrawn. Inject resin until the hole is approximately 3/4 full and remove the nozzle from the hole.





Limitations

THE NTSB HAS STATED THAT THIS PRODUCT IS APPROVED FOR SHORT TERM LOADS ONLY AND SHOULD NOT BE USED IN SUSTAINED TENSILE LOAD ADHESIVE ANCHORING APPLICATIONS WHERE ADHESIVE FAILURE COULD RESULT IN A PUBLIC SAFETY RISK. CONSULT A DESIGN **PROFESSIONAL PRIOR TO USE.** 

Do not use in expansion (i.e. moving) joints.

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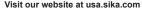
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# Sika[®] AnchorFix-3001

High performance, 2 component adhesive anchor system use in cracked & uncracked concrete

Description			ed as a high performance, two n both cracked and uncracked							
Where to Use	<ul> <li>Cracked &amp; uncracked &amp;</li> <li>Hard natural stone</li> <li>Solid rock</li> <li>Solid masonry</li> </ul>	Solid rock								
Advantages	<ul> <li>Fixing close to free edges</li> <li>Versatile range of embedment depths</li> <li>Anchoring without expansion forces</li> </ul>									
Packaging	20.2 fl. oz. (600 ml) or 50.7	7 fl. oz. (1500 ml) cartri	dges							
Approvals	<ul> <li>ESR to AC308 by ICC</li> <li>Certified to ANSI /NSF</li> <li>Sikadur AnchorFix-300</li> </ul>	- 61 by IAPMO-R&T (	,	pe I, IV, Class C, Grade 3						
	Shelf Life Storage Conditions	date of manufactu Cartridges should way up, in cool co	ectly, the shelf life will be fore. be stored in their original nditions (+50°F to +77°F)	packaging, the correct						
		date of manufactu Cartridges should way up, in cool co	re. be stored in their original	packaging, the correct						
	Storage Conditions           Working & Loading           Cartridge           Temperature	date of manufactu Cartridges should way up, in cool co Times T Work (minutes)	re. be stored in their original nditions (+50°F to +77°F) Base Material	packaging, the correct out of direct sunlight.						
	Storage Conditions Working & Loading Cartridge	date of manufactu Cartridges should way up, in cool co Times T Work	re. be stored in their original nditions (+50°F to +77°F) Base Material Temperature	packaging, the correct out of direct sunlight. T Load (hours)						
	Storage Conditions           Working & Loading           Cartridge           Temperature	date of manufactu Cartridges should way up, in cool co Times T Work (minutes)	re. be stored in their original nditions (+50°F to +77°F) Base Material Temperature +40°F to +49°F	packaging, the correct out of direct sunlight. T Load (hours) 24						
	Storage Conditions	date of manufactu Cartridges should way up, in cool co Times T Work (minutes) 20	re. be stored in their original nditions (+50°F to +77°F) Base Material Temperature +40°F to +49°F +50°F to +59°F	packaging, the correct out of direct sunlight. T Load (hours) 24 12						
	Storage Conditions           Working & Loading           Cartridge           Temperature           +50°F to +59°F           +59°F to +72°F	date of manufactu Cartridges should way up, in cool co Times T Work (minutes) 20 15	re. be stored in their original nditions (+50°F to +77°F) Base Material Temperature +40°F to +49°F +50°F to +59°F +59°F to +72°F	packaging, the correct out of direct sunlight. T Load (hours) 24 12 8						
	Storage Conditions	date of manufactu Cartridges should way up, in cool co Times T Work (minutes) 20 15 11	re. be stored in their original nditions (+50°F to +77°F) Base Material Temperature +40°F to +49°F +50°F to +59°F +59°F to +72°F +72°F to +77°F	packaging, the correct out of direct sunlight. T Load (hours) 24 12 8 7						
	Storage Conditions	date of manufactu Cartridges should way up, in cool co Times T Work (minutes) 20 15 11 8	re. be stored in their original nditions (+50°F to +77°F) Base Material Temperature +40°F to +49°F +50°F to +59°F +59°F to +72°F +72°F to +77°F +77°F to +86°F	packaging, the correct out of direct sunlight. T Load (hours) 24 12 8 7 6						

T Load is the typical time to reach full capacity

*The design professional on the job is ultimately responsible for the interpretation of the data provided above.



Physical Properties				
Property	Result	Method		
Consistency	Pass	ASTM C 881		
Gel Time	10 minutes**	ASTM C 881		
Bond Strength (2 day cure)	2,500 psi	ASTM C 882		
Bond Strength (14 day cure)	2,700 psi	ASTM C 882		
Compressive Strength (7 day)	>13,000 psi	ASTM D 695		
Compressive Modulus (7 days)	420,000 psi	ASTM D 695		
Water Absorption	0.08%	ASTM D 570		
Heat Deflection Temperature	122°F	ASTM D 468		
Linear Coefficient of Shrinkage	0.0003 in/in	ASTM D 2566		

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Installation Sp	ecificatio	n							
Property	Symbol	Unit							
Threaded Rod Diameter	d _a	in	3/8	1/2	5/8	3/4	7/8	1	1-1/4
Drill Bit Diameter	ď	in	1/2	9/16	3/4	7/8	1	1-1/8	1-3/8
Cleaning Brush Size	d _b	-	S14H/F	S16H/F	S22H/F	S24H/F	S27H/F	S31H/F	S38H/F
Nozzle Type	-	-	Q	Q	Q /QH	QH	QH	QH	QH
Extension Tube Required?	-	-	Y1 > 3.5" h _{ef}	Y1 > 3.5" h _{ef}	Y2 > 10" h _{ef}	Y2 > 10" h _{ef}	Y2 > 10" h _{ef}	Y2 > 10" h _{ef}	Y2 > 10" h _{ef}
Resin Stopper Required?	-	-	NO	NO	RS18 > 10" h _{ef}	RS18 > 10" h _{ef}	RS22 > 10" h _{ef}	RS22 > 10" h _{ef}	RS30 > 10" h _{ef}
Rebar Size	d _a	in	#3	#4	#5	#6	#7	#8	#10
Drill Bit Diameter	ď	in	9/16	5/8	3/4	7/8	1	1-1/8	1-3/8
Cleaning Brush Size	d _b	-	S16H/F	S18H/F	S22H/F	S27H/F	S31H/F	S35H/F	S43H/F
Nozzle Type	-	-	Q	Q	Q /QH	QH	QH	QH	QH
Extension Tube Required?	-	-	Y1 > 3.5" h _{ef}	Y1 > 3.5" h _{ef}	Y2 > 10" h _{ef}	Y2 > 10" h _{ef}	Y2 > 10" h _{ef}	Y2 > 10" h _{ef}	Y2 > 10" h _{ef}
Resin Stopper Required?	-	-	NO	NO	RS18 > 10" h _{ef}	RS18 > 10" h _{ef}	RS22 > 10" h _{ef}	RS22 > 10" h _{ef}	RS30 > 10" h _{ef}
Maximum Tight- ening Torque	T _{inst}	ft.lb	15	30	60	100	125	150	200

Y1 - requires 3/8" diameter extension tube fitted to Q nozzle

Y2 requires 9/16" diameter extension tube fitted to QH nozzle

RS22 - use 22mm diameter resin stopper

RS30 - use 30mm diameter resin stopper

*The design professional on the job is ultimately responsible for the interpretation of the data provided above.



Allowable	Steel Stre	ngth for Thread	ed Rods						
		ASTM F 1554	n Steel Grade 36 (A307 r.C)	Carbor ASTM A			ss Steel 593 CW	Stainles ASTM F	
Anchor Diameter (in)		Allowable Tension, N _{all}	Allowable Shear, V _{all}	Allowable Tension, N _{all}	Allowable Shear, $V_{all}$	Allowable Tension, N _{all}	Allowable Shear, V _{all}	Allowable Tension, N _{all}	Allowable Shear, V _{all}
3/8"	lb	2,110	1,080	4,550	2,345	3,360	1,870	4,190	2,160
	kN	9.4	4.8	20.2	10.4	16.1	8.3	18.6	9.6
1/2"	lb	3,750	1,930	8,100	4,170	6,470	3,330	7,450	3,840
	kN	16.7	8.6	36.0	18.5	28.8	14.8	33.1	17.1
5/8"	lb	5,870	3,030	12,655	6,520	10,130	5,220	11,640	6,000
5/6	kN	26.1	13.5	56.3	29.0	45.1	23.2	51.8	26.7
3/4"	lb	8,460	4,360	18,220	9,390	12,400	6,390	15,300	7,880
3/4	kN	37.6	19.4	81.0	41.8	55.2	28.4	68.1	35.1
7 (0)	lb	11,500	5,930	24,800	12,780	16,860	8,680	20,830	10,730
7/8"	kN	51.2	26.4	110.3	56.8	75.0	38.6	92.7	47.7
1"	lb	15,020	7,740	32,400	16,690	22,020	11,340	27,210	14,020
1	kN	66.8	34.4	144.1	74.2	97.9	50.4	121.0	62.4
1 1/4"	lb	23,480	12,100	50,640	26,070	34,420	17,730	38,470	19,820
1 - 1/4"	kN	104.4	53.8	225.1	116.0	153.1	78.9	171.1	88.2

Allowable Tension,  $N_{_{all}}=0.33 \ x \ f_{_{u}} \ x$  nominal cross sectional area Allowable Shear,  $V_{_{all}}=0.17 \ x \ f_{_{u}} \ x$  nominal cross section area

*The design professional on the job is ultimately responsible for the interpretation of the data provided above.

Allowable St	teel Strength fo	or Rebar		Allowable Stee	Strength f	or Rebar	
		Carbon Steel ASTM A 61	5 Grade 60			Carbon Steel CAN/CSA-	G30.18 Gr.400
Reba	ar Size	Allowable Tension, N _{all}	Allowable Shear, $V_{all}$	Rebar S	Size	Allowable Tension, N _{all}	Allowable Shear, V
#3	lb	3,280	1,690		lb	4,016	2,069
#3	kN	14.6	7.5	10M	kN	17.9	9.2
#4	lb	5,831	3,004		lb	8,052	4,148
#4	kN	25.9	13.4	15M	kN	35.8	18.5
#5	lb	9,111	4,693	20M	lb	11,960	6,161
#0	kN	40.5	20.9		kN	53.2	27.4
#6	lb	13,121	6,759		lb	19,975	10,290
#0	kN	58.4	30.1	25M	kN	88.9	45.8
#7	lb	17,859	9,200		lb	28,121	14,486
#1	kN	79.4	40.9	30M	kN	125.1	64.4
#8	lb	23,326	12,016		lb	40,089	20,652
#0	kN	103.8	53.4	35M	kN	178.3	91.9
#40	lb	37,623	19,381			cross sectional area	
#10	kN	167.4	86.2	Shear = 0.17 x f _u x	k nominal cro	oss section area	

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*The design professional on the job is ultimately responsible for the interpretation of the data provided above.

1. Above values for reinforcing steel assume the design method is the same as a post-installed adhesive anchor, under the principles of anchor design (failure modes will be concrete breakout, pryout, steel failure, or adhesive bond) and not under the principles of reinforcing steel design (failure modes are typically splitting failure, inadequatebar development etc..). CONSULT AN ENGINEERING DESIGN PROFESSIONAL PRIOR TO USE.



		Allowable Concrete Capacity /Bond							
Anchor Diameter	Embedment Depth	Tension (lb)			Shear (lb)				
		f² _c =2,500psi	f²_c=4,000psi	f² _c =8,000psi	f² _c =2,500psi	f² _c =4,000psi	f² _c =8,000psi		
	2-3/8"	1,939	2,032	2,178	2,585	2,710	2,904		
3/8" or #3	4-15/16"	4,031	4,225	4,528	5,375	5,633	6,038		
	7-1/2"	6,123	6,418	6,878	8,164	8,557	9,171		
1/2" or #4	2-3/4"	2,527	2,649	2,839	3,369	3,531	3,785		
	6-3/8"	5,858	6,140	6,581	7,811	8,187	8,774		
	10"	9,186	9,631	10,323	12,252	12,842	13,764		
5/8" or #5	3-1/8"	3,889	4,076	4,368	5,185	5,434	5,824		
	7-13/16"	9,722	10,189	10,921	12,962	13,586	14,561		
	12-1/2"	15,555	16,303	17,473	20,739	21,737	23,298		
	3-3/4"	5,200	5,450	5,841	6,933	7,267	7,788		
3/4" or #6	9-3/8"	13,000	13,625	14,603	17,333	18,167	19,471		
	15"	20,799	21,800	23,365	27,732	29,067	31,153		
	4"	8,407	8,811	9,444	11,209	11,749	12,592		
1" or #8	12"	25,221	26,434	28,332	33,628	35,246	37,776		
	20"	42,035	44,057	47,219	56,046	58,743	62,959		
	5"	10,529	11,036	11,828	14,039	14,715	15,771		
1-1/4" or #10	15"	31,588	33,108	35,484	42,117	44,144	47,312		
	25"	52,646	55,180	59,140	70,195	73,573	78,853		

 The above values represent mean ultimate values and allowable working loads. The allowable working loads have been reduced us ing a safety factor of 4. for tension and 3.0 for shear, however, in some cases, such as life safety, safety factors of 10.0 or higher may be necessary.

2. Allowable loads must be checked against steel capacity. The lowest value controls.

3. Tabulated data is applicable to single anchors in normal weight concrete unaffected by edge or spacing reduction factors. V alues are valid for anchors installed into dry concrete in holes drilled with a hammer drill and ANSI carbide drill bit.

4. Linear interpolation is allowed.
 *The design professional on the job is ultimately responsible for the interpretation of the data provided above.

In - Service Temperature	Reduction Factor*	
40°F	1.0	
68°F	1.0	
110°F	0.9	
130°F	0.7	
150°F	0.5	*The the c
168°F	0.4	**Fo
176°F	0.3	extra

*The design professional on the job is ultimately responsible for the interpretation of the data provided above.

**For intermediate temperatures, linear interpolation is allowed. Values must not be extrapolated.

#### Coverage

Anchor size:		(in.)	5/16	3/8	1/2	5/8	3/4	1	1 1/4
Drill Hole Dia	meter:	(in.)	3/8	1/2	9/16	3/4	7/8	1 1/8	1 3/8
Embedment I	Depth:	(in.)	2 3/8	2 3/8	2 3/4	3 1/8	3 3/4	4	5
Estimated	Cartridge	600 ml	176	99	67	33	20	11	6
Number of Fixing *	Volume	1500 ml	455	256	175	86	53	30	16

*Number of fixings assumes 30ml wastage in initial extrusion and holes filled to 3/4 full

Anchor size:		(in.)	5/16	3/8	1/2	5/8	3/4	1	1 1/4
Drill Hole Diameter:		(in.)	3/8	1/2	9/16	3/4	7/8	1 1/8	1 3/8
Embedment	Depth:	(in.)	3 1/8	3 3/4	5	6 1/4	7 1/2	10	12 1/2
Estimated	Cartridge	600 ml	134	62	37	16	10	4	2
Number of Fixing *	Volume	1500 ml	346	162	96	43	26	12	6

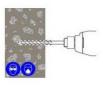
*Number of fixings assumes 30ml wastage in initial extrusion and holes filled to 3/4 full



#### Installation Method (Solid Substrates)

Always refer to MPII on ICC-ESR-3608

1. Using the SDS Hammer Drill in rotary hammer mode for drilling, with a carbide tipped drill bit conforming to ANSI B212.15-1994 of the appropriate size, drill the hole to the specified hole diameter and depth.



 Select the correct Air Lance, insert to the bottom of the hole and depress the trigger for 2 seconds. The compressed air must be clean – free from water and oil – and at a minimum pressure of 90 psi (6 bar).



#### Perform the blowing operation twice.

3. Select the correct size Hole Cleaning Brush. Ensure that the brush is in good condition and the correct diameter. Insert the brush to the bottom of the hole, using a brush



extension if needed to reach the bottom of the hole and withdraw with a twisting motion. There should be positive interaction between the steel bristles of the brush and the sides of the drilled hole.

#### Perform the brushing operation twice.

- 4. Repeat 2 (blowing operation) twice.
- 5. Repeat 3 (brushing operation) twice.
- 6. Repeat 2 (blowing operation) twice.
- Select the appropriate static mixer nozzle, checking that the mixing elements are present and correct (do not modify the mixer). Attach mixer nozzle to the cartridge. Check the Dispensing Tool is in good working order. Place the cartridge into the dispensing tool.

Note: The SAF-Q2 nozzle is in two sections. One section contains the mixing elements and the other section is an extension piece. Connect the extension piece to the mixing section by pushing the two sections firmly together until a positive engagement is felt.

**Note: AnchorFix®-3001** may only be installed between the temperatures of 40°F and 104°F. The product must be conditioned to a minimum of 50°F. For gel and cure time data, refer to Table 14.

 Extrude some resin to waste until an even-colored mixture is extruded, The cartridge is now ready for use.





PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE-PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

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 As specified in Figure 2, Table 11, and Table 12, attach an extension tube with resin stopper (if required) to the end of the mixing nozzle with a push fit.



(The extension tubes may be pushed into the resin stoppers and are held in place with a coarse internal thread).

10. Insert the mixing nozzle to the bottom of the hole. Extrude the resin and slowly withdraw the nozzle from the hole. Ensure no air voids are created as the nozzle is withdrawn. Inject resin until the hole is approximately % full



the hole is approximately ¾ full and remove the nozzle from the hole.

11. Select the steel anchor element ensuring it is free from oil or other contaminants, and mark with the required embedment depth. Insert the steel element into the hole using a back and forth twisting



motion to ensure complete cover, until it reaches the bottom of the hole. Excess resin will be expelled from the hole evenly around the steel element and there shall be no gaps between the anchor element and the wall of the drilled hole.

- 12. Clean any excess resin from around the mouth of th hole.
- 13. Do not disturb the anchor until at least the minimum cure time has elapsed. Refer to the Table 14 Gel and Cure Times to determine the appropriate cure time.



14. Position the fixture and tighten the anchor to the appropriate installation torque.

> Do not over-torque the anchor as this could adversely affect its performance.

Overhead Substrate Installation Method Always refer to MPII on ICC-ESR-3608

- Using the SDS Hammer Drill in rotary hammer mode for drilling, with a carbide tipped drill bit conforming to ANSI B212.15-1994 of the appropriate size, drill the hole to the specified hole diameter and depth.
- Select the correct Air Lance, insert to the bottom of the hole and depress the trigger for 2 seconds. The compressed air must be clean – free from water and oil – and at a minimum pressure of 90 psi (6 bar).



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3. Select the correct size Hole Cleaning Brush. Ensure that the brush is in good condition and the correct diameter. Insert the brush to the bottom of the hole, using a brush extension if needed to reach the bottom of the hole, and withdraw with a twisting motion. There should be positive interaction between the steel bristles of the brush and the sides of the drilled hole.



Perform the brushing operation twice.

- 4. Repeat 2 (blowing operation) twice.
- 5. Repeat 3 (brushing operation) twice.
- 6. Repeat 2 (blowing operation) twice.
- 7. Select the appropriate static mixer nozzle checking that the mixing elements are present and correct (do not modify the mixer). Attach mixer nozzle to the cartridge. Check the Dispensing Tool is in good working order. Place the cartridge into the dispensing tool.

Note: The SAF-Q2 nozzle is in two sections. One section contains the mixing elements and the other section is an extension piece. Connect the extension piece to the mixing section by pushing the two



sections firmly together until a positive engagement is felt.

Note: AnchorFix®-3001 may only be installed between the Temperatures of 40°F and 104°F. The product must be Conditioned to a minimum of 50°F. For gel and cure time data, refer to Table 14.

8. Extrude some resin to waste until an even-colored mixture is extruded, The cartridge is now ready for use.



9. As specified in Figure 2, Table 11, and Table 12, attach an extension tube with resin stopper (if required) to the end of the mixing nozzle with a push fit. (The extension tubes may be pushed into the resin stoppers and are held in place with a coarse internal thread).

10. Insert the mixing nozzle to the bottom of the hole. Extrude the resin and slowly withdraw the nozzle from the hole. Ensure no air voids are created as the nozzle is withdrawn. Inject resin until the hole is approximately 3/4 full and remove

the nozzle from the hole.



11. Select the steel anchor element ensuring it is free from oil or other contaminants, and mark with the required embedment depth. Insert the steel element into the hole using a back and forth twisting motion to ensure complete cover, until it reaches the bottom of the hole.



Excess resin will be expelled from the hole evenly around the steel element and there shall be no gaps between the anchor element and the wall of the drilled hole.

12. Clean any excess resin from around the mouth of the hole.

- 13. Do not disturb the anchor until at least the minimum cure time has elapsed. Refer to the Working and Load Timetable to determine the appropriate cure time.
- 14. Position the fixture and tighten the anchor to the appropriate installation torque.

Do not over-torque the anchor as this could adversely affect its performance.



Limitations

The design professional on the job is ultimately responsible for the interpretation of the data provided above

Note: Sika AnchorFix-3001 has been qualified for resisting long-term leads through the ICC-ES AC308 creep test for which an anchor is loaded and monitored for movement over time. According to AC308, anchors that pass the creep test are determined to be suitable for resisting long- term tensile loads.

- Installation of anchors in horizontal or upwardly inclined orientations to resist sustained tension loads shall be performed by personnel certified by an application certification program in accordance with ACI 318 D.9.2.2 or D.9.2.3
- Please refer to section 5.0 for conditions of use in the ICC Evaluation Report #3608. This report is available on Sika and ICC's websites.
- For a complete list of tools and accessories, refer to ICC ESR #3608
- Minimum application temperature: 40°F (4°C)
- Maximum application temperature: 104°F (40°C)

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# **D** - Grouting and Grout Aids

Sikadur 42 Grout-Pak	D10
Sikadur 42 Grout-Pak PT	D20
Sikadur 42 Grout-Pak LE	D30
SikaGrout 212	D40
SikaGrout 328	D50
SikaGrout 428 FS	D60
Intraplast-N	usa.sika.com
SikaGrout Aid	usa.sika.com



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# Sikadur[®] 42, Grout-Pak

Pre-proportioned, epoxy, baseplate grouting system

Description	Sikadur® 42, Grout-Pak is a 3-component, 100% solids, moisture-tolerant, epoxy baseplate grouting system.					
Where to Use	<ul> <li>Precision seating of baseplates.</li> <li>Precision grouting of wind turbine tower bases requiring rapid strength gain.</li> <li>Grouting under equipment, including heavy impact and vibratory machinery, reciprocating engines, compressors, pumps, presses, etc.</li> <li>Grouting for "pour-back" anchorage on post tensioning projects (e.g. segmental bridge).</li> <li>Grouting under crane rails.</li> </ul>					
Advantages	<ul> <li>Ready to mix, pre-proportioned kit.</li> <li>Moisture-tolerant.</li> <li>Corrosion and impact resistant.</li> <li>Stress and chemical resistant.</li> <li>Long working time.</li> <li>High vibration resistance.</li> <li>Fast strength gain.</li> <li>Low peak exothermic system for large pours.</li> <li>High effective bearing area.</li> <li>Excellent flowability.</li> <li>USDA certifiable for incidental food contact.</li> </ul>					
Packaging	0.5 ft ³ kit: Contains 0.9 gal. epoxy (Component A and C					
	and 50 lbs. aggregate (Component C) in a multi-wall ba <b>1.5 ft³ kit:</b> Contains 2.7 gal. epoxy (Component A in a					
	lbs. aggregate (Component C) in three 50 lb. multi-wall					
	Turnical Data (Material and antistance differen					
	Typical Data (Material and curing conditions RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS					
	TEMPERATURE, APPLICATION METHODS, TEST METHODS, AC					
	Shelf Life         2 years in original, unopene	d containers.				
	Storage Conditions Store dry at 40°-95°F (4°-35 before using. Component C	°C). Condition material to 65°-85°F (18°-29°C) must be kept dry.				
	Color	Concrete gray				
		lowable				
		Approximately 90 minutes				
	Tensile Properties (ASTM C-307) 7 day Tensile	Strength 2,300 psi (15.8 MPa)				
	Flexural Properties (ASTM C-580)           7 day         Flexural Strength (Modulus of Ruptu Tangent Modulus of Elasticity	ure) 4,000 psi (27.6 MPa) 1.30 x 10 ⁶ psi (8,963 MPa)				
	Water Absorption (ASTM C-413) 7 day (2-hour b	oil) 0.04%				
	Bond Strength (ASTM C-882 modified)					
	7 day Bond Strength to Concrete Bond Strength to Steel	4,200 psi (29.0 MPa) 3,800 psi (26.2 MPa)				
	Coefficient of Thermal Expansion (ASTM C-531)	24.5 x 10 ⁻⁶ in./in./°F (13.7x10 ⁻⁶ mm/mm/°C)				
	,	passes test				
	Effective Bearing Area ¹	>95%				
	Compressive Properties (ASTM C-579B): Compr 40°F* (4°C)	essive Strength, psi (MPa) 73°F* (23°C) 90°F* (32°C)				
	8 hour -	- 5,500 (37.9)				
	16 hour -	9,600 (66.2) 9,800 (67.6) 12,200 (84.1) 11,500 (70.3)				
	<b>1 day</b> - <b>3 day</b> 4,800 (33.1)	12,200 (84.1) 11,500 (79.3) 14,000 (96.6) 14,000 (96.6)				
	<b>7 day</b> 13,700 (94.5)	14,900 (102.8) 14,800 (102.1)				
	<b>14 day</b> 13,900 (95.9) <b>28 day</b> 13,900 (95.9)	15,000 (103.4) 15,200 (104.8) 15,200 (104.8) 15,600 (107.6)				
	* Material cured and tested at the temperatures indicated. ¹ Percent final surface area of grout in contact with bearing plate	10,200 (101.0)				
गत्रवा 🔿	R TO EACH USE OF ANY SIKA PRODUCT, THE USER MU	ST ALWAYS READ AND FOLLOW THE WARNINGS AND				
INST	RUCTIONS ON THE PRODUCT'S MOST CURRENT PRODU ET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.C	CT DATA SHEET, PRODUCT LABEL AND SAFETY DATA				

PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-

RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.



How to Use Surface Preparation	Substrate and baseplate contact area must be clean, sound, and free of standing water. Remove dust, laitance oils, grease, curing compounds, waxes, impregnations, foreign particles, coatings and disintegrated material by mechanical means (i.e., sandblasting, bush hammering). Sandblast metal baseplates to a commercia white finish for maximum adhesion. Apply grout immediately to prevent re-oxidizing. Concrete substrate must have reached its desired strength (3,000 psi minimum) and must be dimensionally stable.
Mixing	<ul> <li>0.5 ft³ kit: Pour the entire contents of Components 'A' &amp; 'B' into an appropriate mixing vessel (e.g. 5 gal. bucket and mix for 30 seconds with a 1/2 in. Jiffy mixing paddle (5 in. blade diameter) on a low-speed (400 - 60 rpm) 3/4 in. drive rotary drill, taking care not to entrain air during mixing. Do not over-mix. It is critical to th performance of the grout that there be no appreciable air bubbles in the resin. Slowly add the entire contents of Component 'C' and mix until uniformly blended (approx. 5 minutes).</li> <li>1.5 ft³ kit: Pour the entire contents of Components 'A' &amp; 'B' into an appropriate mixing vessel (e.g. 5 gal bucket) and mix for 30 seconds with a 1/2 in. Jiffy mixing paddle (5 in. blade diameter) on a low-speed (40 - 600 rpm) 3/4 in. drive rotary drill, taking care not to entrain air during mixing. Do not over-mix. It is critical to the performance of the grout that there be no appreciable air bubbles in the resin. Transfer the mixed resin the appropriate mixing vessel. Slowly add the entire 3 bags of Component 'C' and mix until uniformly blended (approx. 5 minutes).</li> </ul>
Application	Pour the mixed grout into the prepared forms from one side only to eliminate air entrapment. Baseplate shoul have vent holes around periphery to prevent air pockets from developing. Maintain the liquid head to ensur intimate contact with the base plate. Plungers may be used to ease placement. Place sufficient epoxy adhesiv grout in the forms to rise slightly above the underside of the base plate. Grout depth of 1 in. (25 mm) minimur required.
Tooling & Finishing	<b>Forming:</b> The flowable consistency of the epoxy adhesive grout system requires the use of forms to contai the material around the baseplates. In order to prevent leakage or seepage, completely seal all forms. Appl polyethylene film or wax to all forms to prevent adhesion of the grout. Prepare form work to maintain a 2 ir (50 mm) liquid head to facilitate placement. A grout box that can be attached to the form will enhance th grout flowability. Projected anchor bolts should be wrapped with neoprene foam rubber (or similar) to prever grout from adhering to the bolts. The use of expansion joints is recommended on large pours to minimize th potential for cracking in the epoxy grout (maximum 3-4 ft. spacing in each direction).
Limitations	<ul> <li>Minimum substrate and ambient temperature is 40°F (4°C).</li> <li>Do not thin. Addition of solvents will prevent proper cure.</li> <li>Material is a vapor barrier after cure.</li> <li>Minimum grout depth is 1 in. (25 mm).</li> <li>Baseplate should be shielded from direct sunlight and rain for a minimum of 24 hours before epoxy grouting, and 48 hours after grouting.</li> <li>Maximum grout depth is 4 in./lift (101 mm).</li> <li>Component C must be kept dry.</li> <li>Cold material may require chaining, rodding, and pushing during placement.</li> <li>For proper seating, allow grout to rise above the bottom of the base plate.</li> <li>Do not batch. Mix complete units.</li> <li>Not an aesthetic product. Color may alter due to variations in lighting and/or UV exposure.</li> </ul>

RIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE: PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

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Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart-ment at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

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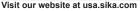
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## Sikadur[®] 42, Grout-Pak PT

Pre-proportioned, epoxy, anchorage protection system

Description	Sikadur® 42, Grout-Pak PT is a 3-component, 100% solids, moisture-tolerant, epoxy anchorage protection system.
Where to Use	<ul> <li>To protect the anchorages of post-tensioning tendons or bars (i.e. pour-back box) on segmental bridge projects.</li> </ul>
Advantages	<ul> <li>Ready to mix, pre-proportioned kit.</li> <li>Excellent adhesion.</li> <li>Impermeable and resistant to chemicals, corrosion, impact and stress.</li> <li>Moisture-tolerant.</li> <li>Low heat development/low peak exothermic system for large pours.</li> <li>High compressive strength.</li> <li>Long working time.</li> <li>High vibration resistance.</li> <li>Fast strength gain.</li> <li>Minimal shrinkage/expansion.</li> <li>High effective bearing area.</li> <li>Good flowability.</li> </ul>
Packaging	0.5 cu. ft. kit consists of epoxy resin (Component 'A' and 'B') and 50 lb. aggregate. (Component 'C') in a multi-wall bag.

#### Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.)

				NDING UPON MIXING METHODS AND E	
Shelf Life	2 years in orig				nons.
Storage Conditions	, 0	<i>'</i> '		Condition material to 75°-85°F (	24°-29°C) before
eterage containerie	using. Compor				
Color	Dark Gray			-	
Consistency	Flowable (whe	n condition	ed prop	erly)	
Application (Pot) Life	Approximately	90 minutes	;		
Gel Time (ASTM D-24	71)		Approx	imately 3.25 hrs.	
Tensile Strength (AS	ГМ С-307)	7 day	2,200	osi (15.1 MPa)	
Flexural Properties (A					
				3,700 psi (25.5 MPa)	
0		,		1,400 ksi (9,655 MPa)	0.049/
	,		lotal v	/ater Absorption (2-hour boil)	0.04%
Bond Strength (ASTM 7 day Bond S			ure) 3	100 psi (21.3 MPa)	
				600 psi (24.8 MPa)	
Coefficient of Therma	0	````			
73° - 212°F (23°-10	00°C) 19.2 x	10 ⁻⁶ in./in./J	њ́F (10	.0 x10 ⁻⁶ mm/mm/ЉС)	
				3 x10 ⁻⁶ mm/mm/ЉС)	
Peak Exotherm (AST Specimen Size Tested:				4 mm v 150 mm)	
Thermal Compatibilit Linear Shrinkage (AS			`	022%	
<b>U</b> (	,		•	ace area of grout in contact wit	h boaring plato
Compressive Creep (				-	in bearing plate
	5 in./in. (0.0085 r		<i>1</i> IVIF a)		
7 day 0.0086					
28 day 0.0093	in./in. (0.0093 r	mm/mm)			
Heat Deflection Temp				°C)	
7 day [fiber str	ess loading = 20	64 psi (1.8 l	MPa)]		



onstru

	Compressive Stre 8 h 16 1 c	40°F hour hour lay lay 6,50	<b>5* (5°C)</b> - - 00 (44.8)	<b>73°F* (23°C)</b> - 10,000 (68.9) 11,000 (75.8) 14,200 (97.9)	<b>90°F* (32°C</b> 8,200 (56.5) 13,000 (89.6 14,000 (96.5 15,000 (103	5) 5) 4)
	14 28 Compressive Moo	day 9,00		15,000 (103.4) 16,000 (110.4) 17,000 (117.3) 2,600 ksi (17,940 M	15,000 (103 16,500 (113 17,500 (120 Pa)	.9)
How to Use Surface Preparation	oils, grease, curing c by mechanical mean white finish for maxir	ompounds, waxes, i s (i.e. sandblasting, num adhesion. Appl	impregnations, f bush hammerin y grout immedia	l, and free of standing oreign particles, coatir g). Sandblast metal co tely to prevent re-oxic minimum] and must b	ngs and disintegra ontact surfaces to a lizing. Concrete su	ted materials a commercia Ibstrate shal
Mixing	for 30 seconds with a drive rotary drill, tak	a 1/2 in. Jiffy mixing ng care not to entra preciable air bubble	paddle (5 in. bla ain air during mi <b>es in the resin</b> .	appropriate mixing ves de diameter) on a <b>low</b> xing. <b>It is critical to t</b> Slowly add the <b>entire</b>	/-speed (400 - 600 he performance	0 rpm) 3/4 in of the grou
Application	box should have ven to ensure intimate co	t holes around peripontact with the pour-	hery to prevent back box. Plung	one side only to elimi air pockets from devel ers may be used to ea side of the base plate	oping. Maintain th ase placement. Pla	e liquid hea ace sufficier
Tooling & Finishing	rial. In order to prev stripped, apply polye work to maintain a 2 form will enhance th with neoprene foam	ent leakage or seep thylene film or bonc in. (50 mm.) liquid e grout flowability. Ir rubber (or similar) to large pours to mini	bage, completely d breaker to all f head to facilitate h base plate app prevent grout fr	ystem requires the us y seal all forms. In ap orms to prevent adhe e placement. A grout b plications, projected an om adhering to the bo ial for cracking in the	pplications where the sion of the grout. If so that can be att that can be att the should be should lts. The use of exp	forms will be Prepare form ached to the be wrapped ansion joint
Limitations	<ul> <li>Anchorage pourbefore epoxy gro</li> <li>Component 'C' m</li> <li>Cold material ma</li> <li>For applications r (standard formula</li> <li>For proper seatin</li> <li>Do not batch. M</li> </ul>	ion of solvents will p or barrier after cure. epth should be 1 in. back box should be uting, and after grou ust be kept dry. y require chaining, r equiring good self-le ation - product code g in base plate appl ix complete units.	(25 mm.). Maxin shielded from di ting until tack fro odding and pust eveling and bette 0335-30N). ications, allow g	ure. num grout depth shou rect sunlight and rain	for a minimum of e <b>Sikadur® 42, G</b> i bottom of the bas	24 hours <b>rout-Pak</b>
INS SHI PAF TO	OR TO EACH USE OF A TRUCTIONS ON THE P EET WHICH ARE AVAILA RTMENT AT 800.933.745 READ AND FOLLOW TH NT PRODUCT DATA SHE	RODUCT'S MOST CU ABLE ONLINE AT HT 2 NOTHING CONTAIN IE WARNINGS AND II	IRRENT PRODUC TP://USA.SIKA.CO IED IN ANY SIKA I NSTRUCTIONS F	CT DATA SHEET, PROD DM/ OR BY CALLING S MATERIALS RELIEVES OR EACH SIKA PRODU	UCT LABEL AND S IKA'S TECHNICAL THE USER OF THE CT AS SET FORTH	AFETY DATA SERVICE DE OBLIGATION
applic and a tions, recon recon and p All sa	ormation provided by Sika Cor ration and use of Sika products pplied under normal conditions actual site conditions and oth nmendations or instructions re unpose before proceeding wit les of Sika product(s) are sub	poration ("Sika") concernin , is given in good faith bass in accordance with Sika's er factors outside of Sika's ated to its products, nor sh- lated to its products. The u h the full application of the ject to its current terms an	g Sika products, inclu ed on Sika's current ev- instructions. In practi- control are such that all any legal relationsh- user of the Sika produ- product(s). Sika resu- d conditions of sale v	sperience and knowledge of it ce, the differences in materials Sika assumes no liability for ip be created by or arise from ct(s) must test the product(s) srves the right to change the which are available at <u>www.s</u>	commendations and adv s products when properl s, substrates, storage an the provision of such infi for suitability for the inte properties of its produc ikausa.com or by callin	ice relating to the y stored, handled d handling cond ormation, advice ormation, advice nded application ts without notice g 800-933-7452
Data Depa instru LIMIT techn use a NOO PURF FOR	to each use of any Sika prod Sheet, product label and Ma rtment at 800-933-7452. No uction for each Sika product : rED WARRANTY: Sika warr ical properties on the currer and assumes all risks. Buyer's THER WARRANTIES EXPRES OSE. SIKASHALL NOT BELIA THE USE OF THIS PRODUCT II	terial Safety Data Sheet of thing contained in any S as set forth in the current ' ants this product for one it Technical Data Sheet i s sole remedy shall be lin SORIMPLIED SHALLAPP SORIMPLIED SHALLAPP BLE UNDERANYLEGALTH VAMANNERTO INFRINGE	which are available ika materials relievé Technical Data Shee year from date of i f used as directed v nited to the purchase LYINCLUDING ANYV IEORYFORSPECIAL	online at <u>www.sikausa.com</u> is the user of the obligation t, product label and Material nstallation to be free from n vithin shelf life. User determ price or replacement of pro- VARRANTY OF MERCHANTA ORCONSEQUENTIAL DAMA ANY OTHER INTELLECTUAL	or by calling Sika's Te to read and follow th Safety Data Sheet prio manufacturing defects - nines suitability of prod duct exclusive of labor BILITY OR FITNESS FOF SES. SIKASHALL NOTB PROPERTY RIGHTS HE	chnical Service e warnings and r to product use and to meet the uct for intended or cost of laboo RAPARTICULAI ERESPONSIBLI ELD BY OTHERS
Ka Regi	our website at www.sikau onal Information and Sale Sika Corporation 201 Polito Avenue Lyndhurst, NJ 07071 Phone: 800-933-7452 Fax: 201-933-6225		Sika M Carrete Fracc. I Corregi 0 C.P. 76 Phone:	Sika sales office, contact y exicana S.A. de C.V. ra Libre Celaya Km. 8.5 ndustrial Balvanera dora, Queretaro 920 52 442 2385800 442 2365827	933-SIKA NATIONWI our regional center.	

## Sikadur[®] 42, Grout-Pak LE^{US} Pre-Proportioned, Precision Epoxy Grouting System

dus			three-component, low exotherm, low stem designed to seat and support high				
■ G cc	recision seating of baseplates. Brouting under equipment, including heavy impact and vibratory machinery, reciprocating engines, compressors, pumps, presses, etc. Brouting under crane rails.						
= Lc = Lc = M = C = Si = H	Advantages  Meets API Standard 686  Low peak exotherm  Low dusting, ready-to-mix, pre-portioned kits  Moisture tolerant  Corrosion and impact resistant  Stress and chemical resistant  High compressive, tensile and shear strengths High vibration resistance						
	Typical Data (Mate	erial and curing conditions @ 73	°F (23°C) and 50% R.H.)				
	RESULTS MAY DIFFER BASI	ED UPON STATISTICAL VARIATIONS DEPEND ON METHODS, TEST METHODS, ACTUAL SIT	DING UPON MIXING METHODS AND EQUIPMENT, E CONDITIONS AND CURING CONDITIONS.				
	Shelf Life	2 years in original, unopened con					
	Color	35°C) before using. Dark Brown					
	Mix Ratio Density	A:B:C by weight solid/liquid by weight 144 lb/ft ³ (2300 kg/m ³ )	3:1:34 8:5:1				
	Pot Life Tensile Strength (AS	Mix 3:1 (A:B 300 g)	2 hrs. 20 min. 5,000 psi (34.5 MPa)				
	Tensile Strength (AS Flexural Strength (A	STM D-307)	2,000 psi (13.8 MPa) 6,400 psi (44.1 MPa)				
		Elasticity in Bending (ASTM C- al Expansion (ASTM C-531)					
		-22° to 86°F (-30°C to 30°C) 75° to 212°F (24°C to 100°C)	1.6 x 10 ⁻⁵ /°F (2.8 x 10 ⁻⁵ /°C) 2.1 x 10 ⁻⁵ /°F (3.8 x 10 ⁻⁵ /°C)				
	Bond Strength (AST	7 Days	> 2,500 psi (40 MPa) concrete failure				
	Creep Test (ASTM C	<b>-1181)</b> 600 psi, 140°F (4.1 MPa, 60°C)	7.2 x 10 ⁻³				
	Linear Shrinkage (A	400 psi, 140°F (2.7 MPa, 60°C)	5.3 x 10 ⁻³ 0.045%				
	Thermal Compatibili Exotherm (ASTM D-2	ty (ASTM C-884)	No delamination/pass 94.3°F (34.6°C)				
	Effective Bearing Ar	ea (ÁSTM C-1339) µth (ASTM C-579), psi (MPa)	~90% (High)				
	24 hou 2 days 3 days 7 days 28 day	9,000 psi (62.1 MPa) 9,000 psi (62.1 MPa)	,000 psi (69.0 MPa)				
	* Material cured and tested at t	,					



	<ul> <li>Low coefficient of thermal expansion; compatible with concrete</li> <li>Material does not require heated transportation</li> </ul>
Packaging	2.0 cu. ft. Unit = Component A: 22.6 lbs. (10.28 kg) Component B: 7.5 lbs. (3.42 kg) Component C: 4 x 64 lbs. (29.03 kg)
Coverage	2 ft ³ (56,640 cm ³ ), 15 gallons (56.6 liters)
How to Use Surface Preparation	<b>Note:</b> For optimum results when grouting in critical items of equipment, it is recommended that the surface preparation requirements of the latest edition of Chapter 5, API Recommended Practice 686 be followed. This document is the "Recommended Practices for Machinery Installation and Installation Design" published by the American Petroleum Institute. Surface and base plate contact area must be clean and sound. For best results, the substrate should be dry. Remove dust, laitance, oils, grease, curing compounds, impregnations, waxes, foreign particles, coatings, and disintegrated materials by mechanical means( i. e. chipping with a chisel, sandblasting). All anchor pockets or sleeves must be void of water. Sandblast metal base plates to a commercial white finish (SP-10) for maximum adhesion. Apply grout immediately to prevent re-oxidizing.
Forming	The consistency of the epoxy grout system requires the use of forms to contain the material around the base plates. In order to prevent leakage or seepage, all forms must be sealed. Apply polyeth- ylene film or wax to all forms to prevent adhesion of the grout. Prepare form work to maintain more than 4 in. (100mm) liquid head to facilitate placement. A grout box equipped with an inclined trough attached to the form will enhance the grout's flowability and minimize air entrapment.
Mixing	Thoroughly pre-mix each Component A and Component B, distributing any settled solids and achieving an even consistency throughout each component. Mix the entire contents of components A and B in the component A pail for 30 seconds with a 1/2 in. Jiffy mixing paddle (5 in. blade diameter) on a low-speed (400 - 600 rpm) 3/4 in. drive rotary drill, taking care not to entrain air during mixing. During the mixing operation, scrape down the sides and bottom of the mixing pail with a flat or straight edge trowel at least once, to ensure complete mixing of A and B components. Avoid entrapment of air during mixing. Entrapped air can result in effecting the physical properties of the mixed grout. Empty entire contents of mixed A and B components into an appropriate mortar mixer ensuring that walls and bottom of mixing pail are scraped clean and all of mixed epoxy resin is added to mortar mixer. Slowly add the entire content of component C and mix until uniformly blended (approx. 5 minutes). Add all component C unless a reduction is directed by the Sika Representative. Mixed grout should be kept agitated prior to placement.
Application	Pour the mixed grout into the prepared forms from one or two adjacent sides only, to eliminate air entrapment. Maintain the liquid head to ensure intimate contact to the base plate. Place sufficient epoxy grout in the forms to rise slightly above the underside [1/8 in (3 mm)] of the base plate. The minimum void depth beneath the base-plate should be 1 in (25 mm), but 1.5 in (38 mm) is preferred. Where the void beneath the base plate is greater than 18 in (450 mm), place the epoxy grout in successive 18 in (450 mm) lifts or less, once the preceding lift has cooled and achieved and initial set.
Limitations	<ul> <li>If material is subject to cold or freezing temperatures during transportation to and from storage on a job site, care must be taken to properly precondition Components, A, B and C prior to beginning grouting operations.</li> <li>Cold ambient, substrate or material temperatures will inhibit the flow and curing characteristics of Sikadur 42 Grout-Pak LE^{us}. For temperatures below 73.4°F (23°C), call Sika Technical Services.</li> <li>Grouting material must be stored in an area with ambient temperature between 73° and 86°F (23° and 30°C) for a minimum of 48 hours before use.</li> <li>Should ambient, substrate or material temperatures exceed 86F (30C), contact Sika Technical Services for guidance as excessive heat can influence the properties of epoxy polymer grouts.</li> <li>Material is a vapor barrier after cure.</li> <li>Do not thin with solvents. Solvents will prevent proper cure.</li> <li>Minimum grout thickness: 1 in. (25 mm).</li> <li>Maximum grout thickness: 18 in. (450 mm) per lift. For grout thickness between 12-18 in. (300-450 mm), contact Sika Technical Services.</li> <li>Component C must be kept dry.</li> <li>For bolt grouting applications, contact Sika Technical Services.</li> </ul>



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PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

KEEP CONTAINER TIGHTLY CLOSED, KEEP OUT OF REACH OF CHILDREN, NOT FOR INTERNAL CONSUMPTION, FOR INDUSTRIAL USE ONLY, FOR PROFESSIONAL USE ONLY.

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart-ment at 800.933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.

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Product Data Sheet Edition 7.24.2014 SikaGrout® 212

## SikaGrout[®] 212

High performance, cementitious grout

SikaGrout [®] 212 is a nor sating mechanism. It is				shrinkage compen-	
Grout [®] 212 compensate grout, SikaGrout [®] 212	es for shrin provides th	kage in both the plate advantage of mu	astic and hardened	states. A structural	
<ul> <li>Use for structural grouting of column base plates, machine base plates, anchor rods, bearing plates, etc.</li> <li>Use on grade, above and below grade, indoors and out.</li> </ul>					
<ul> <li>Multiple fluidity allows ease of placement: ram in place as a dry pack, trowel-apply as a medium flow, pour or pump as high flow.</li> </ul>					
<ul> <li>Multiple fluidity with o</li> <li>Non-metallic, will not</li> <li>Low heat build-up.</li> <li>Excellent for pumping hopper</li> <li>Superior freeze/thaw</li> <li>Resistant to oil and w</li> <li>Meets ASTM C-1107</li> <li>Shows positive expansion</li> </ul>	one materia stain or rus g: Does not resistance. vater. (Grade C). nsion when	st. segregate, even at tested in accordance			
	it./bay at ii	ight now.			
	етнорs, теsт One year Store dry	метнорs, астиаL site o in original, unopene at 40°-95°F (4°-35°)	conditions and curing d bags.	CONDITIONS.	
Color	•				
Flow Conditions		Plastic ¹	Flowable ¹	Fluid ²	
			· ·	8.5 pt.	
	6): Initial	3.5-4.5 hr.	4.0-5.0 hr.	4.5-6.5 hr. 6.0-8.0 hr.	
Tensile Splitting Stren			575 (3.9 MPa)	500 (3.4 MPa)	
Flexural Strength, psi					
Flexulai Strellytti, pSi	28 day	1,400 (9.6 MPa)	1,200 (8.2 MPa)	1,000 (6.8 MPa)	
Bond Strength, psi (A	STM C-882				
Bond Strength, psi (AS Expansion % (CRD C-62	STM C-882 28 day 21) 28 day	modified): Harden 2,000 (13.7 MPa) +0.021%	ed concrete to pla	stic grout	
Bond Strength, psi (A	STM C-882 28 day 21) 28 day 1, psi (CRD 1 day 7 day	modified): Harden 2,000 (13.7 MPa) +0.021%	ed concrete to pla 1,900 (13.1 MPa) +0.056% 3,500 (24.1 MPa) 5,700 (39.3 MPa)	astic grout 1,900 (13.1 MPa) +0.027% 2,700 (18.6 MPa) 5,500 (37.9 MPa)	
	With a special blend of Grout® 212 compensat grout, SikaGrout® 212 SikaGrout ® 212 meets Use for structural grout bearing plates, etc. Use on grade, above Multiple fluidity allows medium flow, pour or Easy to use, just add Multiple fluidity with of Non-metallic, will not Low heat build-up. Excellent for pumping hopper Superior freeze/thaw Resistant to oil and w Meets ASTM C-1107 Shows positive expai SikaGrout® 212 is US Approximately 0.44 cu. 50-lb. multi-wall bags Typical Data (Mater Results May DIFFER BASED of TEMPERATURE, APPLICATION Shelf Life Storage Conditions (ASTM C-109, Plastic of Typical Water Require Set Time (ASTM C-266 Tensile Splitting Streen	With a special blend of shrinkage Grout® 212 compensates for shrin grout, SikaGrout® 212 provides th SikaGrout® 212 meets ASTM C-11 Use for structural grouting of col bearing plates, etc. Use on grade, above and below Multiple fluidity allows ease of pl medium flow, pour or pump as h Easy to use, just add water. Multiple fluidity with one materia Non-metallic, will not stain or rus Low heat build-up. Excellent for pumping: Does not hopper Superior freeze/thaw resistance. Resistant to oil and water. Meets ASTM C-1107 (Grade C). Shows positive expansion when SikaGrout® 212 is USDA-approv Approximately 0.44 cu. ft./bag at h 50-lb. multi-wall bags <b>Typical Data (Material and cur</b> RESULTS MAY DIFFER BASED UPON STATISTIC TEMPERATURE, APPLICATION METHODS, TEST Shelf Life One year Storage Conditions (ASTM C-109, Plastic & Flowable Typical Water Requirements: Set Time (ASTM C-266): Initial Final Tensile Splitting Strength, psi (A 28 day	With a special blend of shrinkage-reducing and plass         Grout® 212 compensates for shrinkage in both the plagrout, SikaGrout® 212 provides the advantage of mulsikaGrout® 212 meets ASTM C-1107 (Grade C).         • Use for structural grouting of column base plates, mbearing plates, etc.         • Use on grade, above and below grade, indoors and         • Multiple fluidity allows ease of placement: ram in plamedium flow, pour or pump as high flow.         • Easy to use, just add water.         • Multiple fluidity with one material.         • Non-metallic, will not stain or rust.         • Low heat build-up.         • Excellent for pumping: Does not segregate, even at hopper         • Superior freeze/thaw resistance.         • Resistant to oil and water.         • Meets ASTM C-1107 (Grade C).         • Shows positive expansion when tested in accordance         • SikaGrout® 212 is USDA-approved.         Approximately 0.44 cu. ft./bag at high flow.         50-lb. multi-wall bags         Typical Data (Material and curing conditions @ 7         RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDINTEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE OF fore using.         Color       Concrete gray         Flow Conditions       Store dry at 40°-95°F (4°-35°C fore using.         Color       Concrete gray         Flow Conditions       Plastic1 <t< td=""><td><ul> <li>Use for structural grouting of column base plates, machine base plates, bearing plates, etc.</li> <li>Use on grade, above and below grade, indoors and out.</li> <li>Multiple fluidity allows ease of placement: ram in place as a dry pack, tr medium flow, pour or pump as high flow.</li> <li>Easy to use, just add water.</li> <li>Multiple fluidity with one material.</li> <li>Non-metallic, will not stain or rust.</li> <li>Low heat build-up.</li> <li>Excellent for pumping: Does not segregate, even at high flow. No buildhopper</li> <li>Superior freeze/thaw resistance.</li> <li>Resistant to oil and water.</li> <li>Meets ASTM C-1107 (Grade C).</li> <li>Shows positive expansion when tested in accordance with ASTM C-822</li> <li>SikaGrout[®] 212 is USDA-approved.</li> <li>Approximately 0.44 cu. ft./bag at high flow.</li> <li>50-lb. multi-wall bags</li> </ul> <b>Typical Data</b> (<i>Material and curing conditions</i> @ 73°F (23°C) and 500 RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS. TemPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING Shelf Life One year in original, unopened bags. Storage Conditions Store dry at 40°-95°F (4°-35°C). Condition mater fore using. Color Color Concrete gray Flow Conditions Flow Conditions Plastic ¹ Flowable¹ (ASTM C-109, Plastic &amp; Flowable; ASTM C-939, Fluid) Typical Water Requirements: <ul> <li>6 pt.+</li> <li>6.5 pt.</li> <li>5et Time (ASTM C-266): Initial</li> <li>3.5-4.5 hr.</li> <li>4.5-5.5 hr.</li> <li>5.6-6.5 hr.</li> </ul> Tensile Splitting Strength, psi (ASTM C-496) <ul> <li>28 day</li> <li>600 (4.1 MPa)</li> <li>575 (3.9 MPa)</li> </ul></td></t<>	<ul> <li>Use for structural grouting of column base plates, machine base plates, bearing plates, etc.</li> <li>Use on grade, above and below grade, indoors and out.</li> <li>Multiple fluidity allows ease of placement: ram in place as a dry pack, tr medium flow, pour or pump as high flow.</li> <li>Easy to use, just add water.</li> <li>Multiple fluidity with one material.</li> <li>Non-metallic, will not stain or rust.</li> <li>Low heat build-up.</li> <li>Excellent for pumping: Does not segregate, even at high flow. No buildhopper</li> <li>Superior freeze/thaw resistance.</li> <li>Resistant to oil and water.</li> <li>Meets ASTM C-1107 (Grade C).</li> <li>Shows positive expansion when tested in accordance with ASTM C-822</li> <li>SikaGrout[®] 212 is USDA-approved.</li> <li>Approximately 0.44 cu. ft./bag at high flow.</li> <li>50-lb. multi-wall bags</li> </ul> <b>Typical Data</b> ( <i>Material and curing conditions</i> @ 73°F (23°C) and 500 RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS. TemPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING Shelf Life One year in original, unopened bags. Storage Conditions Store dry at 40°-95°F (4°-35°C). Condition mater fore using. 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Remove all dirt, oil, grease, and other bond-inhibiting materials by mechanical means. Anchor bolts to be grouted must be de-greased with suitable solvent. Concrete must be sound an oughened to a CSP 4 or higher to promote mechanical adhesion. Prior to pouring, surface should be brought to a saturated surface-dry condition. Steel should be cleaned and prepare horoughly by blastcleaning to a white metal finish. Follow standard industry and Sika guideline for use as an anchoring epoxy. For pourable grout, construct forms to retain grout without leakage. Forms should be lined of coated with bond-breaker for easy removal. Forms should be sufficiently high to accommodate head of grout. Where grout-tight form is difficult to achieve, use SikaGrout® 212 in dry pace consistency. Mix manually or mechanically. Mechanically mix with low-speed drill (400-600 rpm) and Sike mixing paddle or in appropriately sized mortar mixer. Make sure all forming, mixing, placing, and clean-up materials are on hand. Add appropriate quantity of clean water to achieve desired flow. Add bag of powder to mixing vessel. Mix to uniform consistency, minimum of 2 minutes. Ambient and material temperature should be a close as possible to 70°F If higher, use cold water; if colder, use warm water. <b>Product Extension:</b> For deeper applications, SikaGrout® 212 (plastic and flowable consistencie only) may be extended with 25 lbs. of 3/8" pea gravel. The aggregate must be nonreactive, clear well-graded, saturated surface dry, have low absorption and high density, and comply with ASTI C33 size number 8 per Table 2. Add the pea gravel after the water and SikaGrout® 212.
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vell-graded, saturated surface dry, have low absorption and high density, and comply with ASTI C33 size number 8 per Table 2. Add the pea gravel after the water and SikaGrout [®] 212.
Within 15 minutes after mixing, place grout into forms in normal manner to avoid air entrapment /ibrate, pump, or ram grout as necessary to achieve flow or compaction. SikaGrout®212 must b confined in either the horizontal or vertical direction leaving minimum exposed surface. SikaGrout 212 is an excellent grout for pumping, even at high flow. For pump recommendations, contact Fechnical Service. Wet cure for a minimum of 3 days or apply a curing compound which complies with ASTM C-309 on exposed surfaces.
After grout has achieved final set, remove forms, trim or shape exposed grout shoulders t designed profile
<ul> <li>Minimum ambient and substrate temperature 45°F and rising at time of application.</li> <li>Minimum application thickness: 1/2 in.</li> <li>Maximum application thickness (neat): 2 in. However, thicker applications can be achieved Contact Sika's Technical Services Department (800-933-7452) for further information.</li> <li>Do not use as a patching or overlay mortar or in unconfined areas.</li> <li>Material must be placed within 15 minutes of mixing.</li> <li>As with all cement based materials, avoid contact with aluminum to prevent adverse chemicareaction and possible product failure. Insulate potential areas of contact by coating aluminum bars, rails, posts etc. with an appropriate epoxy such as Sikadur® Hi-Mod 32.</li> </ul>

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Product Data Sheet Edition 4.9.2015 SikaGrout® 328





### High performance, precision, grout with extended working time

Description	technology. This at fluid consiste	s grout provic ncy.	les extended w	Ū.	d exceptional p	hysical performant
	A structural, pre perature range of of Engineers Sp	of 40°-95°F. S	SikaGrout® 328	8 can be place meets the AST	d from fluid to o M-C 1107 (Gra	dry pack over a ter de B & C) and Corp
Where to Use	<ul><li>Where except</li><li>Applications r</li><li>Non-shrink gr</li></ul>	equiring a pu outing of ma	impable grout. chinery and eq	-	-	quired. tes, precast panels
	<ul> <li>beams, colum</li> <li>Applications v to transfer option</li> </ul>	vhere a non-		needed for ma	ximum effective	e bearing area
	<ul> <li>For underwate vice for dosage recommended</li> </ul>	er applicatior ge information d to confirm p	n. Independent performance ur	t test data is av nder actual field	ailable howeve	sult Technical Ser- r on site testing is
	For grouting r		•	s, elc.		
Advantages	<ul> <li>Multiple fluidit</li> <li>Reaches 10,0</li> <li>Outstanding p</li> </ul>	00 psi in dry	pack consister	ncy.		
	<ul> <li>Extended wor</li> </ul>					
	Excellent fluid					
	<ul> <li>Contains prer</li> <li>Hordona from</li> </ul>			ate.		
	<ul><li>Hardens free</li><li>Non-metallic,</li></ul>					
	<ul> <li>Meets CRD C</li> </ul>			de C).		
	Shows positive			,		
	SikaGrout [®] 32		approved.			
Coverage	SikaGrout [®] 32     Approximately 0	28 is USDA-a				
-		28 is USDA-a ).44 cu. ft./ba	ig at high flow.			
	Approximately ( Multi-wall bags;	28 is USDA-a ).44 cu. ft./ba 50 lbs. per b	ng at high flow. bag.			
Coverage Packaging	Approximately ( Multi-wall bags; Typical Data (Material and o RESULTS MAY DIFFER BASED U	28 is USDA-a 0.44 cu. ft./ba 50 lbs. per b curing condition PON STATISTICA	ig at high flow. bag. <b>ns @ 73°F (23°C)</b> L VARIATIONS DEPE			
-	Approximately ( Multi-wall bags; Typical Data (Material and of RESULTS MAY DIFFER BASED U TEMPERATURE, APPLICATION M	28 is USDA-a 0.44 cu. ft./ba 50 lbs. per b curing conditio PON STATISTICAL IETHODS, TEST N	ig at high flow. bag. ns @ 73°F (23°C) LVARIATIONS DEPE IETHODS, ACTUAL S	NDING UPON MIXING		
-	Approximately ( Multi-wall bags; Typical Data (Material and o RESULTS MAY DIFFER BASED U	28 is USDA-a 0.44 cu. ft./ba 50 lbs. per b curing conditio PON STATISTICA INTERPOS, TEST N 9 months in out	ig at high flow. pag. ns @ 73°F (23°C) L VARIATIONS DEPE IETHODS, ACTUAL S riginal, unopened I	NDING UPON MIXING SITE CONDITIONS AN bags.		ONS.
-	Approximately ( Multi-wall bags; Typical Data (Material and o RESULTS MAY DIFFER BASED U TEMPERATURE, APPLICATION N Shelf Life	28 is USDA-a 0.44 cu. ft./ba 50 lbs. per b curing conditio PON STATISTICA INTERPOS, TEST N 9 months in out	ig at high flow. pag. ns @ 73°F (23°C) L VARIATIONS DEPE IETHODS, ACTUAL S riginal, unopened I	NDING UPON MIXING SITE CONDITIONS AN bags.	ID CURING CONDITIO	ONS.
	Approximately ( Multi-wall bags; Typical Data (Material and o RESULTS MAY DIFFER BASED U TEMPERATURE, APPLICATION N Shelf Life	28 is USDA-a 0.44 cu. ft./ba 50 lbs. per b curing conditio PON STATISTICAL IETHODS, TEST N 9 months in ou Store dry at 4	ng at high flow. hag. ns @ 73°F (23°C) L VARIATIONS DEPE IETHODS, ACTUAL S riginal, unopened l 0°-95°F (4°-35°C).	NDING UPON MIXING SITE CONDITIONS AN bags.	ID CURING CONDITIO	ONS.
-	Approximately ( Multi-wall bags; Typical Data (Material and o RESULTS MAY DIFFER BASED U TEMPERATURE, APPLICATION N Shelf Life Storage Conditions Color Flow Conditions	28 is USDA-a 0.44 cu. ft./ba 50 lbs. per b curing condition PON STATISTICAN INTERPOS, TEST N 9 months in our Store dry at 44 before using. Concrete gray	ig at high flow. ag. <i>ns</i> @ <i>73°F (23°C)</i> L VARIATIONS DEPE IETHODS, ACTUAL S riginal, unopened I 0°-95°F (4°-35°C). <i>Dry Pack</i> (10-25%)	NDING UPON MIXING SITE CONDITIONS AN bags. Recommend con Plastic (100-125%)	ID CURING CONDITION ditioning material f Flowable ¹ (124-145%)	DNS. to 65°-75°F Fluid ² (20-60 sec)
-	Approximately ( Multi-wall bags; Typical Data (Material and o RESULTS MAY DIFFER BASED U TEMPERATURE, APPLICATION M Shelf Life Storage Conditions Color Flow Conditions Typical Water Requirement	28 is USDA-a 0.44 cu. ft./ba 50 lbs. per b curing condition PON STATISTICAN INTERPOS, TEST N 9 months in our Store dry at 44 before using. Concrete gray	ig at high flow. ag. <i>ns @ 73°F (23°C)</i> L VARIATIONS DEPE IETHODS, ACTUAL S riginal, unopened I 0°-95°F (4°-35°C). <b>Dry Pack</b> (10-25%) 5.5 -6.0 pts.	NDING UPON MIXING SITE CONDITIONS AN bags. Recommend con Plastic (100-125%) 6.5 -7.0 pts.	ID CURING CONDITION ditioning material f Flowable ¹ (124-145%) 7.0 -7.5 pts.	bns. to 65°-75°F Fluid ² (20-60 sec) 8.0 -8.5 pts.
	Approximately ( Multi-wall bags; Typical Data (Material and o RESULTS MAY DIFFER BASED U TEMPERATURE, APPLICATION N Shelf Life Storage Conditions Color Flow Conditions	28 is USDA-a 0.44 cu. ft./ba 50 lbs. per b curing condition PON STATISTICAL INTERHODS, TEST M 9 months in our Store dry at 44 before using. Concrete gray	ig at high flow. ag. <i>ns</i> @ <i>73°F (23°C)</i> L VARIATIONS DEPE IETHODS, ACTUAL S riginal, unopened I 0°-95°F (4°-35°C). <i>Dry Pack</i> (10-25%)	NDING UPON MIXING SITE CONDITIONS AN bags. Recommend con Plastic (100-125%)	ID CURING CONDITION ditioning material f Flowable ¹ (124-145%)	DNS. to 65°-75°F Fluid ² (20-60 sec)
	Approximately ( Multi-wall bags; Typical Data (Material and o RESULTS MAY DIFFER BASED U TEMPERATURE, APPLICATION M Shelf Life Storage Conditions Color Flow Conditions Typical Water Requirement	28 is USDA-a 0.44 cu. ft./ba 50 lbs. per b curing condition PON STATISTICAL IETHODS, TEST M 9 months in our Store dry at 44 before using. Concrete gray s: Initial Final	Ig at high flow. ag. <i>ns @ 73°F (23°C)</i> L VARIATIONS DEPE IETHODS, ACTUAL S riginal, unopened I 0°-95°F (4°-35°C). <b>Dry Pack</b> (10-25%) 5.5 -6.0 pts. <15mins	NDING UPON MIXING SITE CONDITIONS AN bags. Recommend con Plastic (100-125%) 6.5 -7.0 pts. > 2 hr.	ID CURING CONDITION Iditioning material f Flowable ¹ (124-145%) 7.0 -7.5 pts. > 3 hr.	DNS. to 65°-75°F Fluid ² (20-60 sec) 8.0 -8.5 pts. > 4 hr.
	Approximately ( Multi-wall bags; Typical Data (Material and o RESULTS MAY DIFFER BASED U TEMPERATURE, APPLICATION M Shelf Life Storage Conditions Color Flow Conditions Typical Water Requirement Set Time (ASTM C-191): Compressive Strength, psi 1 day	28 is USDA-a 0.44 cu. ft./ba 50 lbs. per b curing condition PON STATISTICAL IETHODS, TEST M 9 months in our Store dry at 44 before using. Concrete gray s: Initial Final	Ig at high flow. ag. Ins @ 73°F (23°C) L VARIATIONS DEPE IETHODS, ACTUAL S riginal, unopened I 0°-95°F (4°-35°C). Dry Pack (10-25%) 5.5 -6.0 pts. <15mins < 2 hrs 5,000	NDING UPON MIXING SITE CONDITIONS AN bags. Recommend con Plastic (100-125%) 6.5 -7.0 pts. > 2 hr. < 6 hr. 4,500	ID CURING CONDITION ditioning material f (124-145%) 7.0 -7.5 pts. > 3 hr. < 7 hr. 4,000	DNS. to 65°-75°F Fluid ² (20-60 sec) 8.0 -8.5 pts. > 4 hr. < 8 hr. 3,500
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	Approximately ( Multi-wall bags; Typical Data (Material and o RESULTS MAY DIFFER BASED U TEMPERATURE, APPLICATION M Shelf Life Storage Conditions Color Flow Conditions Typical Water Requirement Set Time (ASTM C-191): Compressive Strength, psi 1 day 3 day 14 day	28 is USDA-a 0.44 cu. ft./ba 50 lbs. per b curing condition PON STATISTICAL IETHODS, TEST M 9 months in our Store dry at 44 before using. Concrete gray s: Initial Final	Ig at high flow. ag. Ins @ 73°F (23°C) L VARIATIONS DEPE IETHODS, ACTUAL S riginal, unopened I 0°-95°F (4°-35°C). Dry Pack (10-25%) 5.5 -6.0 pts. <15mins < 2 hrs 5,000 8,000 9,200	NDING UPON MIXING SITE CONDITIONS AN bags. Recommend con Plastic (100-125%) 6.5 -7.0 pts. > 2 hr. < 6 hr. 4,500 6,500 7,000	ID CURING CONDITION ditioning material f (124-145%) 7.0 -7.5 pts. > 3 hr. < 7 hr. 4,000 6,000 6,700	Fluid ²         (20-60 sec)         8.0 -8.5 pts.         > 4 hr.         < 8 hr.
	Approximately ( Multi-wall bags; Typical Data (Material and of RESULTS MAY DIFFER BASED U TEMPERATURE, APPLICATION W Shelf Life Storage Conditions Color Flow Conditions Typical Water Requirement Set Time (ASTM C-191): Compressive Strength, psi 1 day 3 day 14 day 28 day	28 is USDA-a 0.44 cu. ft./ba 50 lbs. per b curing conditio PON STATISTICAL IETHODS, TEST M 9 months in our Store dry at 44 before using. Concrete gray s: Initial Final ASTM-C-109	Ig at high flow. ag. Is @ 73°F (23°C) L VARIATIONS DEPE IETHODS, ACTUAL S riginal, unopened I 0°-95°F (4°-35°C). <b>Dry Pack</b> (10-25%) 5.5 -6.0 pts. <15mins < 2 hrs 5,000 8,000	NDING UPON MIXING SITE CONDITIONS AN bags. Recommend con Plastic (100-125%) 6.5 -7.0 pts. > 2 hr. < 6 hr. 4,500 6,500	ID CURING CONDITION ditioning material f (124-145%) 7.0 -7.5 pts. > 3 hr. < 7 hr. 4,000 6,000	Fluid ²         (20-60 sec)         8.0 -8.5 pts.         > 4 hr.         < 8 hr.
	Approximately ( Multi-wall bags; Typical Data (Material and o RESULTS MAY DIFFER BASED U TEMPERATURE, APPLICATION M Shelf Life Storage Conditions Color Flow Conditions Typical Water Requirement Set Time (ASTM C-191): Compressive Strength, psi 1 day 3 day 14 day	28 is USDA-a 0.44 cu. ft./ba 50 lbs. per b curing conditio PON STATISTICAL IETHODS, TEST M 9 months in our Store dry at 44 before using. Concrete gray s: Initial Final ASTM-C-109	Ig at high flow. ag. Ins @ 73°F (23°C) L VARIATIONS DEPE IETHODS, ACTUAL S riginal, unopened I 0°-95°F (4°-35°C). Dry Pack (10-25%) 5.5 -6.0 pts. <15mins < 2 hrs 5,000 8,000 9,200	NDING UPON MIXING SITE CONDITIONS AN bags. Recommend con Plastic (100-125%) 6.5 -7.0 pts. > 2 hr. < 6 hr. 4,500 6,500 7,000	ID CURING CONDITION ditioning material f (124-145%) 7.0 -7.5 pts. > 3 hr. < 7 hr. 4,000 6,000 6,700	Fluid ²         (20-60 sec)         8.0 -8.5 pts.         > 4 hr.         < 8 hr.
	Approximately C Multi-wall bags; Typical Data (Material and C RESULTS MAY DIFFER BASED U TEMPERATURE, APPLICATION M Shelf Life Storage Conditions Color Flow Conditions Typical Water Requirement Set Time (ASTM C-191): Compressive Strength, psi 1 day 3 day 14 day 28 day Splitting Tensile, psi (ASTM	28 is USDA-a 0.44 cu. ft./ba 50 lbs. per b curing conditio PON STATISTICAL IETHODS, TEST M 9 months in our Store dry at 44 before using. Concrete gray s: Initial Final ASTM-C-109	Ig at high flow. ag. Ins @ 73°F (23°C) L VARIATIONS DEPE IETHODS, ACTUAL S riginal, unopened I 0°-95°F (4°-35°C). Dry Pack (10-25%) 5.5 -6.0 pts. <15mins < 2 hrs 5,000 8,000 9,200	NDING UPON MIXING SITE CONDITIONS AN bags. Recommend con Plastic (100-125%) 6.5 -7.0 pts. > 2 hr. < 6 hr. 4,500 6,500 7,000	ID CURING CONDITION ditioning material f (124-145%) 7.0 -7.5 pts. > 3 hr. < 7 hr. 4,000 6,000 6,700	Fluid ²           (20-60 sec)           8.0 -8.5 pts.           > 4 hr.           < 8 hr.
	Approximately C Multi-wall bags; Typical Data (Material and C RESULTS MAY DIFFER BASED U TEMPERATURE, APPLICATION M Shelf Life Storage Conditions Color Flow Conditions Typical Water Requirement Set Time (ASTM C-191): Compressive Strength, psi 1 day 3 day 14 day 28 day Splitting Tensile, psi (ASTM 3 day	28 is USDA-a 0.44 cu. ft./ba 50 lbs. per b curing conditio PON STATISTICAL IETHODS, TEST M 9 months in our Store dry at 44 before using. Concrete gray s: Initial Final ASTM-C-109	Ig at high flow. ag. Ins @ 73°F (23°C) L VARIATIONS DEPE IETHODS, ACTUAL S riginal, unopened I 0°-95°F (4°-35°C). Dry Pack (10-25%) 5.5 -6.0 pts. <15mins < 2 hrs 5,000 8,000 9,200	NDING UPON MIXING SITE CONDITIONS AN bags. Recommend con Plastic (100-125%) 6.5 -7.0 pts. > 2 hr. < 6 hr. 4,500 6,500 7,000	ID CURING CONDITION ditioning material f (124-145%) 7.0 -7.5 pts. > 3 hr. < 7 hr. 4,000 6,000 6,700	Fluid ² (20-60 sec)         8.0 -8.5 pts.         > 4 hr.         < 8 hr.
-	Approximately ( Multi-wall bags; Typical Data (Material and of RESULTS MAY DIFFER BASED U TEMPERATURE, APPLICATION W Shelf Life Storage Conditions Color Flow Conditions Typical Water Requirement Set Time (ASTM C-191): Compressive Strength, psi 1 day 3 day 14 day 28 day Splitting Tensile, psi (ASTM 3 day 7 day	28 is USDA-a 0.44 cu. ft./ba 50 lbs. per b curing condition PON STATISTICAN INTETHODS, TEST M 9 months in our Store dry at 44 before using. Concrete gray S: Initial Final ASTM-C-109 1 C-496)	Ig at high flow. ag. Ins @ 73°F (23°C) L VARIATIONS DEPE IETHODS, ACTUAL S riginal, unopened I 0°-95°F (4°-35°C). Dry Pack (10-25%) 5.5 -6.0 pts. <15mins < 2 hrs 5,000 8,000 9,200	NDING UPON MIXING SITE CONDITIONS AN bags. Recommend con Plastic (100-125%) 6.5 -7.0 pts. > 2 hr. < 6 hr. 4,500 6,500 7,000	ID CURING CONDITION ditioning material f (124-145%) 7.0 -7.5 pts. > 3 hr. < 7 hr. 4,000 6,000 6,700	Fluid ² (20-60 sec)         8.0 -8.5 pts.         > 4 hr.         < 8 hr.
-	Approximately C Multi-wall bags; Typical Data (Material and C RESULTS MAY DIFFER BASED U TEMPERATURE, APPLICATION W Shelf Life Storage Conditions Color Flow Conditions Typical Water Requirement Set Time (ASTM C-191): Compressive Strength, psi 1 day 3 day 14 day 28 day Splitting Tensile, psi (ASTM 3 day 7 day 28 day Flexural Strength, psi (AST 3 day	28 is USDA-a 0.44 cu. ft./ba 50 lbs. per b curing condition PON STATISTICAN INTETHODS, TEST M 9 months in our Store dry at 44 before using. Concrete gray S: Initial Final ASTM-C-109 1 C-496)	Ig at high flow. ag. Ins @ 73°F (23°C) L VARIATIONS DEPE IETHODS, ACTUAL S riginal, unopened I 0°-95°F (4°-35°C). Dry Pack (10-25%) 5.5 -6.0 pts. <15mins < 2 hrs 5,000 8,000 9,200	NDING UPON MIXING SITE CONDITIONS AN bags. Recommend con Plastic (100-125%) 6.5 -7.0 pts. > 2 hr. < 6 hr. 4,500 6,500 7,000	ID CURING CONDITION ditioning material f (124-145%) 7.0 -7.5 pts. > 3 hr. < 7 hr. 4,000 6,000 6,700	Fluid ² (20-60 sec)         8.0 -8.5 pts.         > 4 hr.         < 8 hr.
-	Approximately C Multi-wall bags; Typical Data (Material and C RESULTS MAY DIFFER BASED U TEMPERATURE, APPLICATION W Shelf Life Storage Conditions Color Flow Conditions Typical Water Requirement Set Time (ASTM C-191): Compressive Strength, psi 1 day 3 day 14 day 28 day Splitting Tensile, psi (ASTM 3 day 7 day 28 day Flexural Strength, psi (AST	28 is USDA-a 0.44 cu. ft./ba 50 lbs. per b curing condition PON STATISTICAN INTETHODS, TEST M 9 months in our Store dry at 44 before using. Concrete gray S: Initial Final ASTM-C-109 1 C-496)	Ig at high flow. ag. Ins @ 73°F (23°C) L VARIATIONS DEPE IETHODS, ACTUAL S riginal, unopened I 0°-95°F (4°-35°C). Dry Pack (10-25%) 5.5 -6.0 pts. <15mins < 2 hrs 5,000 8,000 9,200	NDING UPON MIXING SITE CONDITIONS AN bags. Recommend con Plastic (100-125%) 6.5 -7.0 pts. > 2 hr. < 6 hr. 4,500 6,500 7,000	ID CURING CONDITION ditioning material f (124-145%) 7.0 -7.5 pts. > 3 hr. < 7 hr. 4,000 6,000 6,700	Fluid ² (20-60 sec)         8.0 -8.5 pts.         > 4 hr.         < 8 hr.

		Bond Strength, psi (ASTM C-882 modifi	ed):		
		Hardened concrete to plastic grout			
		3 day			950
		7 day			1750
		28 day Freeze Thaw Cycles Procedures - (AS	M C 666)		2000
		300 Cycles RDF 99%	·		
		¹ CRD C-227: 100-124% (plastic), 124-145% (flow ² CRD C-611: 10-30 sec efflux time.	ible)		
	How to Use				
	Surface Prepara	tion Remove all dirt, oil, grease, a grouted must be de-greased mechanical adhesion. Prior t tion.	with suitable solvent. Conc	crete must be sound and ro	oughened to promote
		Forming: For pourable grou coated with bond-breaker fo grout. Where grout-tight form	easy removal. Forms shou	uld be sufficiently high to ac	ccommodate head of
	Mixing	Mechanically mix with a low a jiffy paddle. SikaGrout® 328 until a homogenous mixture	can be mixed in an appropri	5	01
		Product Extension: For de may be extended with 25 lbs C1260, C227 and C289), cle and comply with ASTM C33 [®] 328.	of 3/8" pea gravel. The age an, well-graded, saturated su	gregate must be non-reaction urface dry, have low absorption of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second structure of the second str	ve (Reference ASTM tion and high density,
		Mixing Procedure: Make s appropriate quantity of clear a uniform consistency, minin possible to 70°F. If higher, us to achieve desired consisten	water to achieve desired flo num of 5 minutes. Ambient a e cold water; if colder, use wa	ow. Add bag of powder to r and material temperature sl arm water. Use only the amo	mixing vessel. Mix to hould be as close as
	Application	Within 60 minutes after mixir pump, or ram grout as neces minimum exposed surface. A shoulders to designed profil pump recommendations, con compound which complies w	sary to achieve flow or comp fter grout has achieved final e. SikaGrout® 328 is an exc atact Technical Service. Wet	action. SikaGrout [®] 328 mus l set, remove forms, trim or s ellent grout for pumping, e t cure for a minimum of 3 d	at be confined leaving shape exposed grout ven at high flow. For
	Limitations	Minimum ambient and sub	strate temperature 45°F and	d rising at time of applicatio	n.
		<ul> <li>Minimum application thick</li> <li>For application thicknesse</li> <li>Do not use as a patching</li> <li>As with all cement based and possible product failu</li> </ul>	ness: 1/2 in. s of 6 inches or greater, con or overlay mortar or in uncor	sult Sika's Technical Servic nfined areas. aluminum to prevent adver of contact by coating alumir	e Department. se chemical reaction
		PRIOR TO EACH USE OF ANY SIKA PR INSTRUCTIONS ON THE PRODUCT'S M SHEET WHICH ARE AVAILABLE ONLIN PARTMENT AT 800.933.7452 NOTHING O TO READ AND FOLLOW THE WARNING RENT PRODUCT DATA SHEET, PRODUCT	OST CURRENT PRODUCT DA E AT HTTP://USA.SIKA.COM/ C ONTAINED IN ANY SIKA MATE S AND INSTRUCTIONS FOR E	ATA SHEET, PRODUCT LABE OR BY CALLING SIKA'S TEC ERIALS RELIEVES THE USER ACH SIKA PRODUCT AS SE	EL AND SAFETY DATA HNICAL SERVICE DE- OF THE OBLIGATION FFORTH IN THE CUR-
		KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACI	OF CHILDREN. NOT FOR INTERNAL CONS	SUMPTION. FOR INDUSTRIAL USE ONLY. F	OR PROFESSIONAL USE ONLY.
		For further information and advice regarding tr actual Safety Data Sheets containing physical, e before using the product. In case of emergency,	cological, toxicological and other sa	afety related data. Read the curren	users should refer to the actual Safety Data Sheet
		Prior to each use of any Sika product, the user m Data Sheet, product label and Safety Data Sheet ment at 800-933-7452. Nothing contained in any s for each Sika product as set forth in the current product use.	which are available online at http:// sika materials relieves the user of th	/usa.sika.com/ or by calling Sika's ne obligation to read and follow the	<b>Technical Service Depart-</b>
ſ		SIKA warrants this product for one year from da the current Product Data Sheet if used as directe Buyer's sole remedy shall be limited to the purch EXPRESS OR IMPLIED SHALL APPLY INCLUDIN SHALL NOT BE LIABLE UNDER ANY LEGAL THE THE USE OF THIS PRODUCT IN A MANNER TO INI SALE OF SIKA PRODUCTS ARE SUBJECT S CALLING 201-933-8800.	I within shelf life. User determines a seprice or replacement of product G ANY WARRANTY OF MERCHANT ORY FOR SPECIAL OR CONSEQUE RINGE ON ANY PATENT OR ANY OT	suitability of product for intended exclusive of labor or cost of labor. ABILITY OR FITNESS FOR A PAR INTIAL DAMAGES. SIKA SHALL NO HER INTELLECTUAL PROPERTY F OF SALE AVAILABLE AT HTTP:	use and assumes all risks. NO OTHER WARRANTIES TICULAR PURPOSE. SIKA DT BE RESPONSIBLE FOR RIGHTS HELD BY OTHERS. //USA.SIKA.COM/ OR BY
	R	Visit our website at usa.sika.com Regional Information and Sales Centers. For	the location of your pearest Sike	1-800-933-SIKA N sales office contact your regional	
	ka	Sika Corporation     Sika Cana       201 Polito Avenue     601 Delma       Lyndhurst, NJ 07071     Pointe Clai       Phone: 800-933-7452     Quebec H3       Fax: 201-933-6225     Phone: 51	da Inc.Sika MexicaAvenueCarretera LibreFracc. IndustR 4A9Corregidora,	na S.A. de C.V. pre Celaya Km. 8.5 trial Balvanera	

Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792

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Printed in Canada.

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**Product Data Sheet** Edition 7.24.2014 SikaGrout 428 FS



### SikaGrout[®] 428 FS

High performance, fast setting, non-shrink, cement grout

Description SikaGrout 428 FS is a non-shrink, non-metallic, cementitious precision grout powered by ViscoCrete tech-Where to Advanta Coverage Packagir

a fluid consister	ncy. A structural, precision grout, Sika	aGrout 428 F	S can be place	_
<ul> <li>Grouting of for</li> <li>Non-shrink groups and</li> <li>Applications weights</li> <li>To transfer op</li> </ul>	oundations, windmills, compressors, routing of machinery and equipment curtain walls. where a non-shrink grout is needed otimum load.	etc. , base plate	s, sole plates, p	precast panels, beams,
<ul> <li>Multiple fluidi</li> <li>Outstanding p</li> <li>Excellent fluid</li> <li>Nonmetallic,</li> <li>ASTM C-110</li> <li>Shows positive</li> </ul>	ty with one material performance in fluid state dity, sufficient time for placement will not stain or rust. 7 (Grade C). ve expansion as per ASTM C-827.			
Approximately (	0.50 cu. ft./bag			
65 lb. bag				
RESULTS MAY DIFFER BASED TEMPERATURE, APPLICATION Shelf Life Storage Conditions Color Compressive Strength - A 5 hours 6 hours 1 day 3 day 7 day 28 day Compressive Strength - A 5 hours 6 hours 1 day 3 day 7 day 28 day Compressive Strength - A 5 hours 6 hours 1 day 3 day 7 day 28 day 7 day 28 day	ASTM C-109 Flowable @ 7.0 pts./bag	ING UPON MIXI CONDITIONS	AND CURING CON	DITIONS.
5 hours 6 hours 1 day 3 day 7 day 28 day		< 200 < 500 3,250 6,000 7,500 10,000	1,000 3,000 7,500 8,500 10,000 12,000 1,800 2,200 2,500	4,000 6,000 8,000 8,500 10,000 12,000
	a fluid consister a temperature ra Grouting of for Non-shrink gr columns and Applications of To transfer op For grouting of Quick rate of Multiple fluidi Outstanding p Excellent fluid Nonmetallic, ASTM C-110 Shows positiv Approximately O 65 lb. bag Typical Data (Material and RESULTS MAY DIFFER BASED TEMPERATURE, APPLICATION Shelf Life Storage Conditions Color Compressive Strength - A 5 hours 6 hours 1 day 3 day 7 day 28 day Compressive Strength - A 5 hours 6 hours 1 day 3 day 7 day 28 day Compressive Strength - A 5 hours 6 hours 1 day 3 day 7 day 28 day Compressive Strength - A 5 hours 6 hours 1 day 3 day 7 day 28 day Compressive Strength - A 5 hours 6 hours 1 day 3 day 7 day 28 day Compressive Strength - A 5 hours 6 hours 1 day 3 day 7 day 28 day Compressive Strength - A 5 hours 6 hours 1 day 3 day 7 day 28 day Compressive Strength - A 5 hours 6 hours 1 day 3 day 7 day 28 day	a fluid consistency. A structural, precision grout, Sika a temperature range of 40°-90°F and meets ASTM. For quick turnaround applications, when rate of s Grouting of foundations, windmills, compressors, Non-shrink grouting of machinery and equipment columns and curtain walls. Applications where a non-shrink grout is needed To transfer optimum load. For grouting rebar, bolts, dowels and pins, etc. Quick rate of strength gain. Multiple fluidity with one material Outstanding performance in fluid state Excellent fluidity, sufficient time for placement Nonmetallic, will not stain or rust. ASTM C-1107 (Grade C). Shows positive expansion as per ASTM C-827. Approximately 0.50 cu. ft./bag 65 lb. bag Typical Data ( <i>Material and curing conditions @ 73°F (23°C) an</i> RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPEND TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE Shelf Life One year in original, unopened bag Storage Conditions Store dry at 35°-95°F (4°-35°C). R before using. Color Concrete gray Compressive Strength - ASTM C-109 Plastic @ 6.5 pts./bag 5 hours 6 hours 1 day 3 day 7 day 28 day Compressive Strength - ASTM C-109 Flowable @ 7.0 pts./bag 5 hours 6 hours 1 day 3 day 7 day 28 day Bond Strength - ASTM C-109 Fluid @ 1 gal./bag 5 hours 6 hours 1 day 3 day 7 day 28 day Bond Strength - ASTM C-882 1 Day	a fluid consistency. A structural, precision grout, SikaGrout 428 I a temperature range of 40°-90°F and meets ASTM-C 1107, Gra Grouting of foundations, windmills, compressors, etc. Non-shrink grouting of machinery and equipment, base plate columns and curtain walls. Applications where a non-shrink grout is needed for maximur To transfer optimum load. For grouting rebar, bolts, dowels and pins, etc. Quick rate of strength gain. Multiple fluidity with one material Outstanding performance in fluid state Excellent fluidity, sufficient time for placement Nonmetallic, will not stain or rust. ASTM C-1107 (Grade C). Shows positive expansion as per ASTM C-827. Approximately 0.50 cu. ft./bag G65 lb. bag Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXI TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL STE CONDITIONS Shelf Life One year in original, unopened bags. Storage Conditions Store dry at 35°-95°F (4°-35°C). Recommend or before using. Color Concrete gray Compressive Strength - ASTM C-109 Plastic @ 6.5 pts./bag <u>40°F</u> 5 hours 500 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,500 28 day 7,5	Non-shrink grouting of machinery and equipment, base plates, sole plates, produmms and curtain walls.     Applications where a non-shrink grout is needed for maximum effective bear is to transfer optimum load.     For grouting rebar, bolts, dowels and pins, etc.     Quick rate of strength gain.     Multiple fluidity with one material     Outstanding performance in fluid state     Excellent fluidity, sufficient time for placement     Nonmetallic, will not stain or rust.     ASTM C-1107 (Grade C).     Shows positive expansion as per ASTM C-827.     Approximately 0.50 cu. ft/bag     65 lb. bag      Typical Data (Material and curing conditions @ 73°F (23°C) and 50% R.H.)      RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND     TEMPERATURE, APLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONI Shelf Life     One year in original, unopened bags. Storage Conditions     Store dry at 35°-95°F (4°-35°C). Recommend conditioning mater     before using. Color     Concrete gray  Compressive Strength - ASTM C-109 Plastic @ 6.5 pts./bag     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours     5hours

20 Day       400       >500       >500         Flow       445 sec       >30 sec       >30 sec         Flow       445 sec       >30 mixtes         Float       95%       30 mixtes         Float       150       95%       30 mixtes         Float       150       90 mixtes       90 mixtes         Float       150       90 mixtes       90 mixtes         Permeability       20 any       Positive       Positive       Positive         Surface Preparation       Remove all dift, oil, grease, and other bond-inhibiling materials by mechanical means. Anchor bo greatered with bond-bracker for easy removal. Forms should be structed surface of the cost the tond-thracker for easy removal. Forms should be structed surface of the cost the tond-thracker for easy removal. Forms should be structed surface of the cost the tond-thracker for easy removal. Forms should be structed surface of the cost the tond-thracker for easy removal. Forms should be structed surface of the cost the cost the tond in 30 bs of 3% per greater. The subard to a structe as a structed surface of the cost the cost the ord structed surface of the cost the tond in 30 bs of 3% per greater. The subard to a structe structed surface of the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost the cost		Direct Tensile Bond-ACI 503 1 Day	<b>40°F</b> 200	<u>73°F</u> >400	<u>90°F</u> >450	
Flow         -45 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205%         20 sec 205% <th< th=""><th></th><th></th><th></th><th>&gt;500</th><th></th><th></th></th<>				>500		
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Initial Set         30 minutes           Final Set         45-60 minutes           Expansion         10 ay           7 Day         Positive         Positive           7 Day         Positive         Positive           28 Day         Positive         Positive           Permeability         ASTM C-1202, 28 days at 60 volts         <1,000           How to Use         Surface Proparation         Remove all dirt, oil, grease, and other bond-inhibiling materials by mechanical means. Anchor be grouted must be de-greased with suitable solvent. Concrete must be sound and roughened to mechanical adhesion. Prior to pouring, surface should be brought to a SSD (saturated surface-drution.           Forming: For pourable grout, construct forms to retain grout without leakage. Forms should be coaled with bond-breaker for easy removal. Forms should be sufficiently light to acommodate grout. Where grout-light form is difficult to achieve: use SikaGrout 428 FS in dry pack consistency may be extended with 30 bs. of 36° pea gravel. The aggregate must be non-active (Reference C1260, C227 and C289), clean, well-graded, saturated surface dry, have low absorption and high and comply with ASTM C-33 size number 8 per Table 2. Add the pea gravel after the water and S 428 FS.           Application         Within no more than 10 minutes after mixing, place grout into forms in normal maner to avoid a mean theoreacity (Reference C1260, C227 and C289), clean, well-graded, saturated setting times. Photobac continge Mix to a unform consistency. maximum of 3 minutes. Condition product fo room temperature wareme temperatures use cold water and for colder temperatures use w						
Final Set Expansion         45-60 minutes           1 Day         Positive         Positive         Positive         Positive           2 Day         Positive         Positive         Positive         Positive           2 Day         Positive         Positive         Positive         Positive           Positive         Positive         Positive         Positive         Positive           Permeability         ASTM C-1202.28 days at 60 volts         <1.000          State           Burface Preparation         Remove all dirt, oil, grease, and other bond-inhibiting materials by mechanical means. Anchor bor grouted must be de-greased with suitable solvent. Concreter must be sound and roughened to mechanical admession. Prior to pouring, surface should be brought to a SSD (saturated surface-driton.           Forming: For pourable grout, construct forms to retain grout without leakage. Forms should be coated with obnd-breaker for easy removal. Forms should be sufficiently high to accommodate grout. Where grout-tight form is difficult to achieve, use SikaGrout 428 FS (plastic and flowable consistenc may be extended with 30 bis. of 367 pea gravel. The aggregate must be non-reactive (Referenc C1260, C227 and C289), Celan, well-graded, saturated surface dry, have low absorption and high and comply with hASTM C33 size number 8 per Table 2. Add the pea gravel after the water and S 428 FS.           Mixing         Mixing Procedure: Make sure all forming, mixing, placing, and clean-up metrials are on ha approximately one galion of clean water and Casitice temperatures usee and water and S		-	- 00 /0		- 0070	
Expansion 1 Day 7 Day 2 Day 2 Day 2 Day Permability ASTM C-1202, 28 days at 60 volts         Positive Positive Positive         Positive Positive         Positive Positive           How to Use Surface Preparation         Remove all dirt, oil, grease, and other bond-inhibiting materials by mechanical means. Anchor bo grouted must be de-greased with suitable solvent. Concrete must be sound and roughened to mechanical adhesion. Prior to pouring, surface should be brought to a SSD (saturated surface-dr tion.           Forming: For pourable grout, construct forms to retain grout without leakage. Forms should be coated with bond-breaker for easy removal. Forms should be sufficiently high to accommodate grout. Where grout-light form is difficult to achieve, use SikaGrout 428 FS in dry pack consistent or a jiffy paddle. SikaGrout 428 FS can be mixed in an appropriately sized mortar mixer. Mixing or a jiffy paddle. SikaGrout 428 FS (plastic and flowable consistenc may be extended with 30 lbs. of 3/8' pea gravel. The aggregate must be non-reactive (Referenc C1260, C227 and C258), cean, well-graded, saturated surface dry, have low absorption and high and comply with ASTM C33 size number 8 per Table 2. Add the pea gravel after the water and S 428 FS.           Application         Within no more than 10 minutes after mixing, placing, and clean-up materials are on ha ap-proximately one galion of clean water to achieve desired flow. Add bag of powder to mixing Mix to a uniform consistency, maximum of 3 minutes. Mixing Procedure: Make sure all forming, mixing, place grout tor tor well may be acheeve homogeneous mixture. Do NOT OVER WATER!           Application         • Minimum application fixed to an instare than expected setting times. Phalo 2. So on exposed su water necessary to achieve homogeneous mixture. Do NOT OVER WATER!						
7 Day Permeability ASTM C-1202, 28 days at 60 voits         Positive Positive         Positive Positive         Positive Positive         Positive           How to Use         Surface Preparation         Remove all dirt, oil, grease, and other bond-inhibiling materials by mechanical means. Anchor bo grouted must be de-greased with suitable solvent. Concrete must be sound and roughened to mechanical adhesion. Prior to pouring, surface should be brought to a SSD (saturated surface-d tion.           Forming: For pourable grout, construct forms to retain grout without leakage. Forms should be coated with bond-breaker for easy removal. Forms should be sufficiently high to accommodate grout. Where grout-light form is difficult to achieve, use SikaGrout 428 FS in dry pack consistent grout. Where grout-light form is 50 cal be mixed in an appropriately sized mortar mixer. Mixing or a lift paddle. SikaGrout 428 FS can be mixed in an appropriately sized mortar mixer. Mixing or a lift paddle. 2028), clean, well-graded, saturated surface dry, have low absorption and high and comply with ASTM C33 size number 8 per Table 2. Add the pea gravel after the water and S 428 FS.           Mixing Procedure: Make sure all forming, mixing, placing, and clean-up materials are on ha approximately one galion of clean water to achieve desired flow. Add bag of powder to mixing Mix to a uniform consistency, maximum of 3 minutes. Contino product to room temperatu- warmer temperatures use cold water and for colder temperatures use exersary to achieve howords 428 FS.           Application         Within no more than 10 minutes after mixing, place grout informs in normal manner to avoid at ment. Mixed grout in mass will result in faster than expected setting times. Plan Jobs according the grout can be placaded right fatter mixing, voltacet desetting times. Th	Ţ	Expansion				
28 Day Permeability ASTM C-1202, 28 days at 60 volts         Positive         Positive           How to Use Surface Preparation         Remove all dirt, oil, grease, and other bond-inhibiting materials by mechanical means. Anchor be grouted must be de-greased with suitable solvent. Concrete must be sound and roughened to mechanical adhesion. Prior to pouring, surface should be brought to a SSD (saturated surface-dr tion.           Forming: For pourable grout, construct forms to retain grout without leakage. Forms should be coated with bond-breaker for easy removal. Forms should be sufficiently high to accommodate grout. Where grout-ight form is difficult to achieve, use SikaGrout 428 FS in dry padk consistend modehanical with a low speed diril (400-600 rpm) for at least 3 minutes using a Sika mixing or a jiffy paddle. SikaGrout 428 FS can be mixed in an appropriately sized mortar mixer. Mixing or a jiffy paddle. SikaGrout 428 FS can be mixed in an appropriately sized mortar mixer. Mixing whe extended with 30 lins. of 36% pea gravel. The aggregate must be non-reactive (Referenc C1260, C227 and C289), clean. welf-graded, saturated surface dry, have low absorption and high and comply with ASTM C33 size number 8 per Table 2. Add the pea gravel after the water and S 428 FS.           Mixing Procedure: Make sure all forming, mixing, placing, and clean-up materials are on the ap-proximately one gallon of clean water to achieve desiting times. Plai jobs according Mix to a uniform consistency, maximum of 3 minutes. Condition product to room temperature watter necessary to achieve homogeneous mixture. DO NOT OVER WATERI           Application         Within no more than 10 minutes after mixing, place grout into forms in normal manner to avoid ai ment. Mixed grout in mass with group sub condinging Mix to a uninform oshape exposed grout shoulders to designed profi	· · · · · · · · · · · · · · · · · · ·	1 Day	Positive	Positive	Positive	
Permeability ASTM C-1202, 28 days at 60 volts         <1,000		7 Day	Positive	Positive	Positive	
ASTM C-1202, 28 days at 60 volts       <1,000         How to USE       Surface Preparation       Remove all dirt, oil, grease, and other bond-inhibiting materials by mechanical means. Anchor be grouted must be de-greased with suitable solvent. Concrete must be sound and roughened to mechanical adhesion. Prior to pouring, surface should be brought to a SSD (saturated surface-dr ton.         Forming: For pourable grout, construct forms to retain grout without leakage. Forms should be coated with bond-breaker for easy removal. Forms should be sufficiently high to accommodate grout. Where grout-light form is difficult to achieve, use SikaGrout 428 FS in dry pack consistent or a jffy paddle. SikaGrout 428 FS can be mixed in an appropriately sized mortar mixer. Mixing or a jffy paddle. SikaGrout 428 FS can be mixed in an appropriately sized mortar mixer. Mixing continue until a homogenous mixture is achieved. Do not over mix. Once all the powder is addect time should be approximately 3 minutes.         Product Extension: For deeper applications, SikaGrout 428 FS (plastic and flowable consistenc may be extended with 30 lbs. of 3/8' pea gravel. The aggregate must be non-reactive (Referenc C1260, C227 and C228), clean, well-graded, sturtated sufface dry, have low absorption and high and comply with ASTM C33 size number 8 per Table 2. Add the pea gravel after the water and S 428 FS.         Mixing Procedure: Make sure all forming, mixing, placing, and clean-up materials are on ha ap-proximately one galion of clean water to achieve desired flow. Add bag of powder to mixing Mix to a uniform consistency, maximum of 3 minutes. Condition product to room temperatu warer temperatures use colf water and for colder temperatures use warm water. Use only at water necessary to achieve homogeneous mixture. Do NOT OVER WATERI         Application	:	28 Day	Positive	Positive	Positive	
How to Use         Remove all dirt, oil, grease, and other bond-inhibiting materials by mechanical means. Anchor bo grouted must be de-greased with suitable solvent. Concrete must be sound and roughened to mechanical adhesion. Prior to pouring, surface should be brought to a SSD (saturated surface-driton.           Forming: For pourable grout, construct forms to retain grout without leakage. Forms should be coated with bond-breaker for easy removal. Forms should be sufficiently high to accommodate grout. Where grout-tight form is difficult to achieve, use SikaGrout 428 FS in dry pack consistence or alf/p addle. SikaGrout 428 FS can be mixed in an appropriately sized mortar mixer. Mixing continue until a homogenous mixture is achieved. Do not over mix. Once all the powder is addec time should be approximately 3 minutes.           Product Extension: For deeper applications, SikaGrout 428 FS (plastic and flowable consistence may be extended with 30 lbs. of 3/8' pea gravel. The aggregate must be non-reactive (Referenc C1260, C227 and C289), clean, well-graded, saturated surface dry, have low absorption and high and comply with ASTM C33 size number 6 per Table 2. Add the pea gravel after the water and 5 428 FS.           Mixing Procedure: Make sure all forming, mixing, placing, and clean-up materials are on he ap-proximately one galion of clean water to achieve desired flow. Add bag of powder to mixing Mix to a uniform consistency maximum of 3 minutes. Condition product to room temperatu warmer temperatures use cold water and for colder temperatures use warm water. Use only at water necessary to achieve homogeneous mixture. DO NOT OVER WATER!           Application         Within no more than 10 minutes after mixing, place grout into forms in normal manner to avoid a ment. Mixed grout in mass will result in fastare than expected setting times. Plan jobs according the grout c		•				
Surface Preparation         Remove all dirt, oil, grease, and other bond-inhibiting materials by mechanical means. Anchor bord grouted must be de-greased with suitable solvent. Concrete must be sound and roughened to mechanical adhesion. Prior to pouring, surface should be brought to a SSD (saturated surface-droit on.           Forming: For pourable grout, construct forms to retain grout without leakage. Forms should be coated with bond-breaker for easy removal. Forms should be sufficiently high to accommodate grout. Where grout-tight form is difficult to achieve, use SikaGrout 428 FS in dry pack consistend to a high gradile. SikaGrout 428 FS can be mixed in an appropriately sized mortar mixer. Mixing           Mixing         Mechanically mix with a low speed drill (400-600 rpm) for at least 3 minutes using a Sika mixing or a jiffy paddle. SikaGrout 428 FS can be mixed in an appropriately sized mortar mixer. Mixing or be extended with 30 lbs. of 3/8' pea gravel. The aggregate must be non-reactive (Referend C1260, C227 and C289), clean, well-graded, saturated surface dry, have low absorption and high and comply with ASTM C33 size number 8 per Table 2. Add the pea gravel after the water and S 428 FS.           Mixing Procedure: Make sure all forming, mixing, placing, and clean-up materials are on he ap-proximately to achieve densime. The outpertures use warm water. Use only at water necessary to achieve homogeneous mixture. DO TO VER WATER!           Application         Within no more than 10 minutes after mixing, place grout into forms in normal manner to avoid at ment. Mixed grout ness will result in faster than expected setting times. Plan jobs according the grout can be placed right fater mixing, Viorate, ram grout as necessary to achieve for a mixing days or apply a water based curing compound which complies with ASTM C-309 on exposed suremove forms, trim o		ASTM C-1202, 28 days at 60 volts		<1,000		
<ul> <li>grouted must be de-greased with suitable solvent. Concrete must be sound and roughened to mechanical adhesion. Prior to pouring, surface should be brought to a SSD (saturated surface-dr tion.</li> <li>Forming: For pourable grout, construct forms to retain grout without leakage. Forms should be coated with bond-breaker for easy removal. Forms should be sufficiently high to accommodate grout. Where grout-light form is difficult to achieve, use SikaGrout 428 FS ind y pack consistent grout. Where grout-light form is difficult to achieve, use SikaGrout 428 FS (adsort) 428 FS (adsort) for a lifty paddle. SikaGrout 428 FS can be mixed in an appropriately sized mortar mixer. Mixing or a jiffy paddle. SikaGrout 428 FS can be mixed in an appropriately sized mortar mixer. Mixing continue until a homogenous mixture is achieved. Do not over mix. Once all the powder is addect time should be approximately 3 minutes.</li> <li>Product Extension: For deeper applications, SikaGrout 428 FS (plastic and flowable consistenc may be extended with 30 lbs. of 30° pea gravel. The aggregate must be non-reactive (Referenc C1260, C227 and C289), clean, well-graded, saturated surface dry, have low absorption and high and comply with ASTM C33 size number 8 per Table 2. Add the pea gravel after the water and S 428 FS.</li> <li>Mixing Procedure: Make sure all forming, mixing, placing, and clean-up materials are on he ap-proximately one gallon of clean water to achieve desired flow. Add bag of powder to mixing Mix to a uniform consistency, maximum of 3 minutes. Condition product to room temperature ware necessary to achieve homogeneous mixture. Do NOT OVER WATER!</li> <li>Application</li> <li>Within no more than 10 minutes after mixing, place grout into forms in normal manner to avoid ai ment. Mixed grout in mass will result in faster than expected setting times. Plan jobs according it be grout an be placed right fafter mixing. Vlorate, ram grout as necessary to achieve homogeneous mixture. So AD10 TOVER WATER!<!--</td--><td>/ to Use</td><th></th><td></td><td></td><td></td><td></td></li></ul>	/ to Use					
coated with bond-breaker for easy removal. Forms should be sufficiently high to accommodate grout. Where grout-light form is difficult to achieve, use SikaGrout 428 FS in dry pack consistent or a jiffy paddle. SikaGrout 428 FS can be mixed in an appropriately sized mortar mixer. Mixing or a jiffy paddle. SikaGrout 428 FS can be mixed in an appropriately sized mortar mixer. Mixing continue until a homogenous mixture is achieved. Do not over mix. Once all the powder is addect time should be approximately 3 minutes.           Product Extension: For deeper applications, SikaGrout 428 FS (plastic and flowable consistenci may be extended with 30 lbs, of 3/8" pea gravel. The aggregate must be non-reactive (Referenc C1260, C227 and C289), clean, well-graded, saturated surfaced dry, have low absorption and high and comply with ASTM C33 size number 8 per Table 2. Add the pea gravel after the water and S 428 FS.           Mixing Procedure: Make sure all forming, mixing, placing, and clean-up materials are on ha ap-proximately one gallon of clean water to achieve desired flow. Add bag of powder to mixing Mix to a uniform consistency, maximum of 3 minutes. Condition product to room temperatu warmer temperatures use cold water and for colder temperatures use warm water. Use only ar water necessary to achieve homogeneous mixture. DO NOT OVER WATER!           Application         Within no more than 10 minutes after mixing, place grout into forms in normal manner to avoid ai ment. Mixed grout in mass will result in faster than expected seting times. Plan jobs according the grout 428 FS must be confined leaving minimum exposed surface. After grout has achieved remove forms, trim or shape exposed grout shoulders to designed profile. Wet cure for a minim days or apply a water based curing compound which complies with ASTM C-309 on exposed su to unite and substrate temperature 40°F and rising at time of application.	ce Preparation	grouted must be de-greased wi mechanical adhesion. Prior to po	ith suitable solvent.	Concrete must be	sound and roughened to	o promote
<ul> <li>or a jiffy paddle. SikaGrout 428 FS can be mixed in an appropriately sized mortar mixer. Mixing continue until a homogenous mixture is achieved. Do not over mix. Once all the powder is added time should be approximately 3 minutes.</li> <li>Product Extension: For deeper applications, SikaGrout 428 FS (plastic and flowable consistence may be extended with 30 lbs. of 3/8" pea gravel. The aggregate must be non-reactive (Reference C1260, C227 and C289), clean, well-graded, saturated surface dry, have low absorption and high and comply with ASTM C33 size number 8 per Table 2. Add the pea gravel after the water and S 428 FS.</li> <li>Mixing Procedure: Make sure all forming, mixing, placing, and clean-up materials are on ha ap-proximately one gallon of clean water to achieve desired flow. Add bag of powder to mixing Mix to a uniform consistency, maximum of 3 minutes. Condition product to room temperatu warmer temperatures use cold water and for colder temperatures use warm water. Use only ar water necessary to achieve homogeneous mixture. DO NOT VVER WATER!</li> <li>Application</li> <li>Within no more than 10 minutes after mixing, vlbrate, ram grout as necessary to achieve flow croom SikaGrout 428 FS must be confined leaving minimum exposed surface. After grout has achieved remove forms, trim or shape exposed grout shoulders to designed profile. Wet cure for a minim days or apply a water based curing compound which complies with ASTM C-309 on exposed su</li> <li>Limitations</li> <li>Minimum ambient and substrate temperature 40°F and rising at time of application.</li> <li>Minimum ambient and storage temperatures will result in reduced working time and can effect 1 of the grout.</li> <li>Do not use as a patching or overlay mortar or in unconfined areas.</li> <li>Material must be placed mithin 10 minutes of mixing.</li> <li>Warmer ambient and storage temperatures will result in reduced working time and can effect 1 of the grout.</li> <li>As with all cement based ma</li></ul>		coated with bond-breaker for ea	asy removal. Form	s should be sufficie	ntly high to accommodat	te head of
Mixing Procedure: Make sure all forming, mixing, placing, and clean-up materials are on ha ap-proximately one gallon of clean water to achieve desired flow. Add bag of powder to mixing Mix to a uniform consistency, maximum of 3 minutes. Condition product to room temperature warmer temperatures use cold water and for colder temperatures use warm water. Use only ar water necessary to achieve homogeneous mixture. DO NOT OVER WATER!         Application       Within no more than 10 minutes after mixing, place grout into forms in normal manner to avoid ai ment. Mixed grout in mass will result in faster than expected setting times. Plan jobs accordingly the grout can be placed right after mixing. Vibrate, ram grout as necessary to achieve flow or com SikaGrout 428 FS must be confined leaving minimum exposed surface. After grout has achieved remove forms, trim or shape exposed grout shoulders to designed profile. Wet cure for a minim days or apply a water based curing compound which complies with ASTM C-309 on exposed su         Limitations       Minimum ambient and substrate temperature 40°F and rising at time of application.         Minimum application thickness: 1/2 in.       Typical max. application for neat grout is 2 in. For deeper pours, extending grout with recomm aggregate is advised. For extended applications, min. application thickness will be 1 in. and the would be 6 in.         Do not use as a patching or overlay mortar or in unconfined areas.       Material must be placed within 10 minutes of mixing.         Warmer ambient and storage temperatures will result in reduced working time and can effect 1 of the grout.       As with all cement based materials, avoid contact with aluminum to prevent adverse chemical tion and possible product failure. Insulate potential areas of contact by coating aluminum bars	g	or a jiffy paddle. SikaGrout 428 continue until a homogenous mi time should be approximately 3 <b>Product Extension:</b> For deeper may be extended with 30 lbs. of C1260, C227 and C289), clean,	FS can be mixed ixture is achieved. I minutes. r applications, Sika f 3/8" pea gravel. T well-graded, satura	in an appropriately Do not over mix. Or Grout 428 FS (plast he aggregate must ated surface dry, har	sized mortar mixer. Mixi ice all the powder is adde ic and flowable consister be non-reactive (Referer ve low absorption and hig	ing should ed the mix ncies only) nce ASTM gh density,
<ul> <li>Minimum application thickness: 1/2 in.</li> <li>Typical max. application for neat grout is 2 in. For deeper pours, extending grout with recomm aggregate is advised. For extended applications, min. application thickness will be 1 in. and the would be 6 in.</li> <li>Do not use as a patching or overlay mortar or in unconfined areas.</li> <li>Material must be placed within 10 minutes of mixing.</li> <li>Warmer ambient and storage temperatures will result in reduced working time and can effect 1 of the grout.</li> <li>As with all cement based materials, avoid contact with aluminum to prevent adverse chemical tion and possible product failure. Insulate potential areas of contact by coating aluminum bars posts etc. with an appropriate epoxy such as Sikadur 32 Hi-Mod.</li> <li>For cold temperature start with 7/8 of a gallon and add remaining 1/8, only if needed for fluid consistency.</li> </ul>	cation	ap-proximately one gallon of cle Mix to a uniform consistency, warmer temperatures use cold water necessary to achieve hom Within no more than 10 minutes ment. Mixed grout in mass will r the grout can be placed right after SikaGrout 428 FS must be confi remove forms, trim or shape ex	ean water to achie maximum of 3 mi water and for colde nogeneous mixture after mixing, place result in faster than er mixing. Vibrate, r ined leaving minimu sposed grout should	ve desired flow. Ad nutes. Condition pr er temperatures use . DO NOT OVER W grout into forms in expected setting ti ram grout as necess im exposed surface ders to designed pr	d bag of powder to mixin roduct to room temperate warm water. Use only a /ATER! normal manner to avoid a mes. Plan jobs according sary to achieve flow or co . After grout has achieve ofile. Wet cure for a mini	ng vessel. tures. For amount of air entrap- gly so that ompaction. d final set, imum of 3
<ul> <li>Typical max. application for neat grout is 2 in. For deeper pours, extending grout with recomm aggregate is advised. For extended applications, min. application thickness will be 1 in. and the would be 6 in.</li> <li>Do not use as a patching or overlay mortar or in unconfined areas.</li> <li>Material must be placed within 10 minutes of mixing.</li> <li>Warmer ambient and storage temperatures will result in reduced working time and can effect 1 of the grout.</li> <li>As with all cement based materials, avoid contact with aluminum to prevent adverse chemical tion and possible product failure. Insulate potential areas of contact by coating aluminum bars posts etc. with an appropriate epoxy such as Sikadur 32 Hi-Mod.</li> <li>For cold temperature start with 7/8 of a gallon and add remaining 1/8, only if needed for fluid consistency.</li> </ul>	ations		•	°F and rising at time	e of application.	
<ul> <li>Material must be placed within 10 minutes of mixing.</li> <li>Warmer ambient and storage temperatures will result in reduced working time and can effect to of the grout.</li> <li>As with all cement based materials, avoid contact with aluminum to prevent adverse chemical tion and possible product failure. Insulate potential areas of contact by coating aluminum bars posts etc. with an appropriate epoxy such as Sikadur 32 Hi-Mod.</li> <li>For cold temperature start with 7/8 of a gallon and add remaining 1/8, only if needed for fluid consistency.</li> </ul>		<ul> <li>Typical max. application for ne aggregate is advised. For external</li> </ul>	eat grout is 2 in. Fo			
<ul> <li>Warmer ambient and storage temperatures will result in reduced working time and can effect the of the grout.</li> <li>As with all cement based materials, avoid contact with aluminum to prevent adverse chemical tion and possible product failure. Insulate potential areas of contact by coating aluminum bars posts etc. with an appropriate epoxy such as Sikadur 32 Hi-Mod.</li> <li>For cold temperature start with 7/8 of a gallon and add remaining 1/8, only if needed for fluid consistency.</li> </ul>						
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<ul> <li>As with all cement based materials, avoid contact with aluminum to prevent adverse chemical tion and possible product failure. Insulate potential areas of contact by coating aluminum bars posts etc. with an appropriate epoxy such as Sikadur 32 Hi-Mod.</li> <li>For cold temperature start with 7/8 of a gallon and add remaining 1/8, only if needed for fluid consistency.</li> </ul>		-	temperatures will f	esuit in reduced WC	inking time and can eπec	riuldity
consistency.		<ul> <li>As with all cement based mat tion and possible product failu posts etc. with an appropriate</li> </ul>	ure. Insulate potent e epoxy such as Sik	ial areas of contact adur 32 Hi-Mod.	by coating aluminum bar	rs, rails,
			th 7/8 of a gallon ar	nd add remaining 1/	8, only if needed for fluid	i
Relet to ACI sub Guidelines when there is a need to place this grout in cold & hot temperature		,	when there is a start	d to place this second	tin cold ? bot to man and	1500
R PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNIN INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DAT. WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DEPAR AT 800-933-7452. NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION T	®	PRIOR TO EACH USE OF ANY SIKA INSTRUCTIONS ON THE PRODUCT'S N WHICH ARE AVAILABLE ONLINE AT F	PRODUCT, THE USER MOST CURRENT PROD HTTP://USA.SIKA.COM	MUST ALWAYS READ UCT DATA SHEET, PRO // OR BY CALLING SIK/	AND FOLLOW THE WARNI DUCT LABEL AND SAFETY DA A'S TECHNICAL SERVICE DEP	INGS AND ATA SHEET ARTMENT

DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

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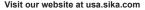
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Fracc. Industrial Balvanera Corregidora, Queretaro

Phone: 52 442 2385800 Fax: 52 442 2250537

C.P. 76920



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Sika Corporation 201 Polito Avenue Lyndhurst, NJ 07071 Phone: 800-933-7452 Fax: 201-933-6225 Sika Canada Inc. 601 Delmar Avenue Pointe Claire Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792 1-800-933-SIKA NATIONWIDE

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 Sika Canada Inc.
 Sika Canada Inc.
 Sika Mexicana S.A. de C.V.

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 601 Delmar Avenue
 Carretera Libre Celaya Km. 8.5
 Image: Sika Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Structure Stru



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# **E** - Total Corrosion Management

Sika FerroGard 650, 670, 675 Sika FerroGard 903 Sika FerroGard 908 Sika Ebonex E10 A400 A410 usa.sika.com



**BUILDING TRUST** 

Product Data Sheet

Edition 1.8.2016 Sika® FerroGard®

## Sika° FerroGard° 650, 670, 675

Embedded Galvanic Anode

cription		nic Anodes are engineered zinc a cased in a proprietary mortar desi		for the protection of reinforcing steel in concrete imize performance.
ere to Use	Patch repairs within cor		ew and existin	ng concrete. Effective in chloride contaminated an
vantages	zinc anode and corro	1 1 7 37		ellent transport of reactants to the surface of the zinc, using a chelation process. The encasing
	<ul> <li>Proven technology</li> </ul>	- supported by 10+ years of deve	elopment and	l testing.
	<ul> <li>Cost Effective – low</li> </ul>	ers Life Cycle Cost of repairs.		-
	<ul> <li>Auto-Corrosion – er</li> </ul>	ncasing mortar maintains perform	mance but de	pes not auto- or self-corrode the zinc anode.
		- uses standard attachment me		
	Self-Powered / Self	Regulating – creates own prote	ective current	that adjusts to demand.
	Maintenance Free -	requires no monitoring or maint	tenance.	
		ts conventional and pre-stressed		sion reinforcing steel; moderate pH safe
		zed steel tie wires (annealed) are ables a better electrical contact a		
	<b>a b b c</b>	le of 10 . years of systestics does	onding on de	
	Typical Data RESULTS MAY DIFFER		IONS DEPEND	ING UPON MIXING METHODS AND EQUIPMENT, E CONDITIONS AND CURING CONDITIONS.
	Typical Data RESULTS MAY DIFFER	BASED UPON STATISTICAL VARIATI CATION METHODS, TEST METHODS	TIONS DEPEND S, ACTUAL SIT	ING UPON MIXING METHODS AND EQUIPMENT,
	<b>Typical Data</b> RESULTS MAY DIFFER TEMPERATURE, APPL	BASED UPON STATISTICAL VARIATI CATION METHODS, TEST METHODS Conforms to ASTM B418 T	TIONS DEPEND S, ACTUAL SITE	ING UPON MIXING METHODS AND EQUIPMENT, E CONDITIONS AND CURING CONDITIONS.
	<b>Typical Data</b> RESULTS MAY DIFFER TEMPERATURE, APPL	BASED UPON STATISTICAL VARIATI CATION METHODS, TEST METHODS Conforms to ASTM B418 T vanic Zinc Anodes.	TIONS DEPEND S, ACTUAL SITE Type II, Stand	ING UPON MIXING METHODS AND EQUIPMENT, E CONDITIONS AND CURING CONDITIONS.
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	<b>Typical Data</b> RESULTS MAY DIFFER TEMPERATURE, APPL	BASED UPON STATISTICAL VARIATI CATION METHODS, TEST METHODS Conforms to ASTM B418 T vanic Zinc Anodes. High Surface Area for opti Sika° FerroGard° 65	TIONS DEPEND S, ACTUAL SITI Type II, Stand imum perfor 50: 70:	ING UPON MIXING METHODS AND EQUIPMENT, E CONDITIONS AND CURING CONDITIONS. dard Specification for Cast and Wrought Gal- rmance: 21 in ²
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	Typical Data RESULTS MAY DIFFER TEMPERATURE, APPLI Zinc Anode: Shelf Life	BASED UPON STATISTICAL VARIATI ICATION METHODS, TEST METHODS Conforms to ASTM B418 T vanic Zinc Anodes. High Surface Area for opti Sika° FerroGard° 65 Sika° FerroGard° 67 Sika° FerroGard° 67 Nominal Avoid te	TIONS DEPEND S, ACTUAL SITU Type II, Stand imum perfor 50: 70: 75: I shelf life of emperatures	ING UPON MIXING METHODS AND EQUIPMENT, E CONDITIONS AND CURING CONDITIONS. dard Specification for Cast and Wrought Gal- rmance: 21 in ² 40 in ² 42 in ² 5 years.
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	Typical Data RESULTS MAY DIFFER TEMPERATURE, APPLI Zinc Anode: Shelf Life Storage Conditions Electro-Potential:	BASED UPON STATISTICAL VARIATI CATION METHODS, TEST METHODS Conforms to ASTM B418 T vanic Zinc Anodes. High Surface Area for opti Sika° FerroGard° 65 Sika° FerroGard° 67 Sika° FerroGard° 67 Nominal Avoid te -850 to	TIONS DEPEND S, ACTUAL SITI Type II, Stand imum perfor 50: 70: 75: I shelf life of emperatures -1150 mV, CS r/kg	ING UPON MIXING METHODS AND EQUIPMENT, E CONDITIONS AND CURING CONDITIONS. dard Specification for Cast and Wrought Gal- rmance: 21 in ² 40 in ² 42 in ² 5 years. >100°F
	Typical Data RESULTS MAY DIFFER TEMPERATURE, APPLI Zinc Anode: Shelf Life Storage Conditions Electro-Potential: Capacity:	BASED UPON STATISTICAL VARIATI CATION METHODS, TEST METHODS Conforms to ASTM B418 T vanic Zinc Anodes. High Surface Area for opti Sika° FerroGard° 67 Sika° FerroGard° 67 Sika° FerroGard° 67 Nominal Avoid te -850 to 738 A-hr	TIONS DEPEND S, ACTUAL SITI Type II, Stand imum perfor 50: 70: 75: I shelf life of emperatures -1150 mV, CS r/kg	ING UPON MIXING METHODS AND EQUIPMENT, E CONDITIONS AND CURING CONDITIONS. dard Specification for Cast and Wrought Gal- rmance: 21 in ² 40 in ² 42 in ² 5 years. >100°F
	Typical Data         RESULTS MAY DIFFER         TEMPERATURE, APPLI         Zinc Anode:         Shelf Life         Storage Conditions         Electro-Potential:         Capacity:         Auto-Corrosion:	BASED UPON STATISTICAL VARIATI CATION METHODS, TEST METHODS Conforms to ASTM B418 T vanic Zinc Anodes. High Surface Area for opti Sika° FerroGard° 65 Sika° FerroGard° 67 Sika° FerroGard° 67 Nominal Avoid te -850 to 738 A-hr <0.1 mm ~11.5	TIONS DEPEND S, ACTUAL SITI Type II, Stand imum perfor 50: 70: 75: I shelf life of emperatures -1150 mV, CS r/kg	ING UPON MIXING METHODS AND EQUIPMENT, E CONDITIONS AND CURING CONDITIONS. dard Specification for Cast and Wrought Gal- rmance: 21 in ² 40 in ² 42 in ² 5 years. >100°F
	Typical Data         RESULTS MAY DIFFER         TEMPERATURE, APPLI         Zinc Anode:         Shelf Life         Storage Conditions         Electro-Potential:         Capacity:         Auto-Corrosion:	BASED UPON STATISTICAL VARIATI CATION METHODS, TEST METHODS Conforms to ASTM B418 T vanic Zinc Anodes. High Surface Area for opti Sika° FerroGard° 65 Sika° FerroGard° 67 Sika° FerroGard° 67 Nominal Avoid te -850 to 738 A-hr <0.1 mm ~11.5	TIONS DEPEND S, ACTUAL SITE Type II, Stand imum perfor 50: 70: 75: I shelf life of emperatures -1150 mV, CS r/kg n / year	ING UPON MIXING METHODS AND EQUIPMENT, E CONDITIONS AND CURING CONDITIONS. dard Specification for Cast and Wrought Gal- rmance: 21 in ² 40 in ² 42 in ² 5 years. >100°F

FerroGard[®] 675



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How to Use Spacing	Multiple factors must be considered to determine the spacing of the FerroGard® anode, including the structure's temperatur moisture content, chloride content, the steel surface area and placement. In most applications, the spacing should not excee 30 inches. A design engineer should always be consulted to confirm final requirements. Consult FerroGard® Anode Calculatic sheet for engineered designs or refer to the Maximum Anode Spacing Chart below.
Installation	<b>Surface Preparation:</b> All loose and spalled concrete should be removed in accordance with ICRI Guideline No. 310.1R-200 Guideline for Surface Preparation for the Repair of Deteriorated Concrete Resulting from Reinforcing Steel Corrosion. The Sik FerroGard [®] anode positioning should be considered when removing the existing concrete.
	<b>Positioning:</b> In most applications, the FerroGard [®] anode should be positioned at the perimeter of the repair and on plar with the reinforcing steel to provide a proper level of cover. Anodes must be positioned so that the entire anode and the will connections to the reinforcing steel are totally covered by the encasement material once the repair is complete. Note: Do not modify the shape of the anode to fit a hole.
	<b>Preparation:</b> For correct electrical connection and anode function, the surface of the reinforcing steel should be untreated and cleaned to a near white surface condition in areas designated for the connection of the FerroGard [®] anode. Refer to SSF SP-10. Note, pre-soaking the SIKA FerroGard [®] anodes in clean water for several minutes prior to installation is recommended to minimize dehydration of the repair mortar.
	<b>Continuity:</b> The reinforcing steel within the patch area should be tested for continuity: DC resistance between bars should $t \le 1 \Omega$ . Make continuity corrections, if needed, by welding steel bonding wire between bars to achieve a DC resistance $\le 1 \Omega$
	<b>Attaching:</b> Tighten the two pairs of pre-twisted wires around the reinforcing steel in a double wrap pattern to achieve a sour electrical bond. The pre-twisted wire connectors provide a sound base, good electrical contact and proper spacing from the reinforcing steel to which the anode is attached. No additional form of attachment or electrical connection is necessary. Not Use only the connector wires attached to the anode; do not use supplementary connection methods between the connect loops and the rebar nor use a twisting tool to tighten the wires.
	<b>Verification:</b> Verify sound electrical connection of the FerroGard [®] system to the reinforcing steel by checking for a DC resistan $\leq 1 \Omega$ .
	<b>Note:</b> Conventional, commercially available repair mortars should be used to repair the concrete and encase the FerroGard anodes. The mix should have a resistivity of $\leq 20,000 \ \Omega$ -cm. High polymer content and silica fume should not be used in th mix. If the repair design requires a mix with resistivity >20,000 $\Omega$ -cm, encase the anode and bridge the area between th anode and the existing concrete with SikaRepair [®] 222 (with water) or SikaRepair [®] 223 (with water). Place encasement materia in accordance with conventional techniques to assure good consolidation.
	Do not use any form of battery or impressed current in association with the FerroGard® anode or apply an electrical current the reinforcing steel prior to or after the repair. Do not install a preformed high resistivity or non-conductive barrier betwee the FerroGard® anode and the reinforcing steel. Do not apply corrosion inhibitors directly on the FerroGard® anode body connecting wires, especially on or near the wire connection point with the reinforcing steel.





Maximum Anode Spacing for Moderate-Low Corrosion Risk Environment Cl content <1% by weight of cement, or Steel Potential more positive than -350 mV, CSE						
	FerroGard® 650	FerroGard® 670	FerroGard® 675			
<b>Steel Density Ratio</b>	inches	inches	inches			
<0.2	28	30	31			
0.21-0.46	25	27	28			
0.47-0.70	22	25	27			
0.71-0.93	20	23	25			
0.94-1.15	18	22	24			
1.16-1.36	16	20	22			
1.37-1.56	15	19	21			
1.57-1.75	14	19	21			
1.75-1.93	13	18	20			
1.94-2.1	12	17	19			

#### Maximum Anode Spacing for High Corrosion Risk Environment

Cl content >1% by weight of cement, or Steel Potential more negative than -350 mV, CSE FerroGard® 650 FerroGard[®] 670 FerroGard[®] 675 **Steel Density Ratio** inches inches inches < 0.2 25 27 28 0.21-0.46 22 24 25 0.47-0.70 19 22 24 0.71-0.93 17 20 22 0.94-1.15 15 19 21 13 17 19 1.16-1.36 12 16 18 1.37-1.56 1.57-1.75 11 16 18 1.75-1.93 10 15 17 1.94-2.1 9 14 16

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E10

# F - Liquid Applied Roofing & Waterproofing

Sikalastic Protective Waterproofing Sikalastic 320	F10
Sikalastic DeckPro Traffic Systems	
1 Component	
Sikalastic 710/715/735 AL Traffic System	F20
Sikalastic 710 Lo-VOC/715 Lo-VOC/736 AL	F30
Lo-VOC Traffic System	
Sikalastic 710 NP Base	F40
Sikalastic 715 Lo-VOC/715 Lo-VOC Traffic System	F50
2 Component	
Sikalastic 720/745 AL Traffic System	F60
Sikalastic 720 SG Base	F70
Sikalastic 390/391/395 Traffic System	F80
Decorative	
Sikalastic 735 AL/736 AL Lo-VOC/748 PA	F90
Hybrid	
Sikalastic 22 Lo-Mod Hybrid Traffic System	F100
Primers	
Sikalastic FTP Primer	F110
Sikalastic FTP Lo-VOC Primer	F120
Sikalastic PF Lo-VOC Primer	F130
Sikalastic MT Primer	F140
Sikalastic Recoat Primer	F150

#### Sikalastic RoofPro Resins

Resins	
Sikalastic 601BC/621 TC	F160
Sikalastic 624 WP	F170
Sikalastic 641	F180
Sikalastic 641 Lo-Voc	F190
Sikalastic 600 Accelerator	F200
Sikalastic Clearglaze	F210
Reinforcements	. 2.0
Sika Reemat Standard and Premium	F220
Sika Fleece 120, 140, 170	F230
Sika Flexitape Heavy	F240
Sika Joint Tape SA	F250
Primers	1250
Sika Joint Tape SA Primer	F260
Sika Concrete Primer	F270
Sikalastic DTE Primer	F280
Sikalastic EP Primer	F280 F290
Sika Reactivation Primer	F300
Sika Bonding Primer	A430
Insulations and Cover Boards	
Sarnatherm ISO Insulation (20 psi)	usa.sika.com
Sarnatherm ISO Insulation (25 psi)	usa.sika.com
Sarnatherm Tapered ISO Insulation (20 psi)	
Sarnatherm Tapered ISO Insulation (25 psi)	
Sarnatherm XPS Insulation	usa.sika.com
Securock Gypsum Fiber Roof Board	usa.sika.com
Securock Cement Roof Board	usa.sika.com
Dens Deck Roof Board	usa.sika.com
Adhesives and Fasteners	
Sarnacol OM Board Adhesive	usa.sika.com
Sarnafastener #12	usa.sika.com
Sarnafastener #14	usa.sika.com
Sarnafastener CD10	usa.sika.com
Sarnaplate	usa.sika.com
Vapor Barriers and Primers	
Sarnavap Self-Adhered Vapor/Air Barrier	usa.sika.com
Sarnavap Self-Adhered Primer	usa.sika.com
Sarnavap Self-Adhered Primer WB	usa.sika.com
Sarnavap Self-Adhered Primer VC	usa.sika.com
Accessories	
Sarnapaver	usa.sika.com
Sika Drainage Mats	usa.sika.com
Edge Grip Fascia	usa.sika.com
Edge Grip Extruded Fascia	usa.sika.com
Wall Grip Coping	usa.sika.com
Wall Grip Coping Plus	usa.sika.com
	asa.sika.com



**Product Data Sheet** Edition 7.26.2016 Identification no. Sikalastic® 320

### Sikalastic[®] 320 NS/SL

Single Component, Bitumen Modified Waterproofing Membrane

Description	Sikalastic® 320 is a single component, liquid applied, bitumen modified, coal tar free, moisture cured polyurethane waterproofing membrane available in self-leveling and non-sag consistencies.
Where to Use	<ul> <li>Planters</li> <li>Green and Inverted Roofs</li> <li>Between Slabs</li> <li>Plazas and Pavers</li> <li>Foundation Walls</li> <li>Bridges and Tunnels</li> </ul>
Advantages	<ul> <li>Easy Application</li> <li>Applies on green and damp concrete</li> <li>Alkali Resistant</li> <li>Quick Re-coat time</li> <li>Ability to catalyze with water <ul> <li>Faster cure rate</li> <li>Reduce chance of pinholes from concrete out-gassing</li> <li>Apply at any thickness horizontally</li> </ul> </li> </ul>
Packaging	5 gallon (18.9 liter) pail. 55 gallon drum, net fill 50 gallons (189 liters)

Constructio

Typical Data (Material and curing conditions @ 75°F (24°C) and 50% RH) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life	One year from date of manufacture in original, factory-sealed containers		
Storage Conditions	Store indoors at terr	nperatures between 60-95°F (15-35°C).	
Colors	Black		
Coverage	50 ft²/gal results in	30 ± mils DFT	
	25 ft²/gal results in	60 ± mils DFT (standard)	
	18 ft²/gal results in	90 ± mils DFT	
	13 ft²/gal results in ?	120 ± mils DFT	
Total Volume Solids (AS	TM D-2697)	96 ± 2%	
Total Weight Solids (AS	TM D-236)	95 ± 2%	
VOCs (ASTM D-2369-81)		48 g/L	
Tensile Strength (ASTM	D-412)	500 psi ± 50 psi   2.1 ± 0.3 Mpa	
Elongation at Break (AS	TM D-412)	350% ± 50%	
Tear Resistance (Die C,	ASTM D-624)	50 ± 10 psi	
Hardness (ASTM D-224)	))	92 Shore A	
Specific Gravity		1.2 ± 0.2	
Viscosity at 80°F (27°C)		25-45 cps (SL) 150-250 cps (NS)	
Service Temperature		-25°F to 200°F (-31.7°C to 93.3°C)	
Application on Green Co	ncrete		
Horizontal		48 hours or walkable conditions	
Vertical		24 hours after forms removed	



	How To Use Surface Preparation	Surfaces may be dry or damp, but must be sound and free of standing water, dust, laitance, grease, curing compounds, impregnations, waxes and any other contaminants. Some warranties require one coat of Sikalastic PF Lo-VOC Primer on horizontal surfaces before application of Sikalastic 320.
	Mixing	Before application, Sikalastic [®] 320 should be thoroughly mixed using a mechanical mixer and jiffy style paddle at slow speed for 1.5 minutes minimum to ensure a homogeneous material. Take care not to allow entrapment of air into the material. Do not mix in an up and down motion.
		<b>Using Optional Water Catalyst:</b> Before application, mix Sikalastic®320 using a mechanical mixer and jiffy style mixing paddle at a slow speed. At a ratio 1 part of water to no less than 40 parts Sikalastic® 320. For a 5 gal pail, add 1 pint (16 oz) of water (less water may be used to extend working time). Use care not to allow the entrapment of air into the mixture. Do not mix in an up and down motion. Once water is mixed with Sikalastic [®] 320 apply within 20 minutes.
	Application	Sikalastic [®] 320 may be applied with a brush, squeegee, trowel, or roller up to 90 mils vertically and 120 mils horizontally per coat. Mix Sikalastic [®] 320 with water to greatly reduce the chance of pinhole formation from concrete out-gassing and improve cure rate. Cured membrane must be pinhole free after application to validate warranty.
		<b>Flood Test:</b> After Sikalastic [®] 320 has cured, plug drains and provide proper means to contain flood water. Flood deck with a 2" head of water and allow to stand for 24 hours. Check for leaks and immediately make repairs if required. Retest after any repairs have been made. If a flood test cannot be completed in within 3 days of application, cover Sikalastic [®] 320 with a protection course to prevent damage from other trade work until a successful flood test is completed.
		<b>Membrane Protection:</b> As soon as possible after completion of a successful water test, visual inspection and/or repairs, cover all horizontal membranes with an approved drainage mat and optional protection board. Sikalastic® 320 should not be exposed to sunlight or UV radiation for more than 14 days. For all vertical membranes, cover immediately after cure with a protection course.
onstruction		<b>Joints, Cracks and Flashing:</b> For all cracks up to 1/16" in width apply a 4" wide, 30 mil stripe coat of Sikalastic [®] 320 centered over the crack. All cracks over 1/16" in width must be routed to at least 1/4" by 1/4" sealed with the appropriate Sikaflex [®] sealant and coated with a 4" wide, 30 mil stripe coat centered on the sealant. When sealing green concrete, use Sikaflex [®] 1a+. Reinforcing fabric may be required for metal flashing transitions, plywood seams, and expansion joints by embedding reinforcing in 15 mils of membrane then coating with another 15 mils of membrane. Metal surfaces should be primed with Sikalastic [®] EP Primer the day before application of Sikalastic [®] 320 detail coats.
2		<b>Curing and Recoating:</b> At 75°F (24°C) and 50% relative humidity, allow each coat of Sikalastic [®] 320 to cure 16-24 hours* minimum. When using water as a catalyst: allow Sikalastic [®] 320 to cure a minimum of 2-4 hours* before proceeding to subsequent coats. If more than 48 hours pass between coats the surface must be solvent wiped and primed with Sikalastic EP Primer.
	Removal/ Equipment Cleanup	Equipment should be immediately cleaned with an environmentally safe solvent, as permitted under local regulations.
Con	Limitations	<ul> <li>*Higher temperatures and/or high humidity will accelerate the cure time. In cold weather conditions, use pail warmers or preconditioning to assist in workability.</li> <li>Sikalastic[®] 320 should not be submerged or subject to ponding for more than 72 hours.</li> <li>Containers that have been opened must be used as soon as possible.</li> <li>Not recommended for Oriented Strand Board (OSB) or asphalt surfaces.</li> <li>Membrane should not be applied under thin set tile. Mortar beds applied above Sikalastic[®] 320 should be at least 2" thick.</li> <li>Do not apply to porous or damp surfaces where moisture vapor transmission will occur during application and cure. Exposure to direct sunlight can exacerbate vapor transmission during cure. Apply Sikalastic[®] 320 in shaded areas and/or during falling temperatures or contact Sika for use of a suitable primer in this situation</li> </ul>
	INSTR	R TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND RUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA T WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE- MENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGA-
		TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.
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	TION CURR KEEP CON For furth actual Sa before us Prior to e Data She ment at 8	TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE. ITAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY. There information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the afety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet sing the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887. each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product set, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart- 300-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instructions Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to
	TION CURR KEEP CON For furth actual Sa before us Prior to e Data She ment at 8 for each product i SIKA war the curre Buyer's s SHALL N THE USE SALE OI	TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE. ITAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY. There information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the afety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet sing the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887. each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product set, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart- 300-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instructions Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to

Sika CorporationSika Canada Inc.201 Polito Avenue601 Delmar AvenueLyndhurst, NJ 07071Pointe ClairePhone: 800-933-7452Quebec H9R 4A9Fax: 201-933-6225Phone: 514-697-2610

Sika Mexicana S.A. de C.V. Carretera Libre Celaya Km. 8.5 Fracc. Industrial Balvanera Corregidora, Queretaro C.P. 76920







Single component, elastomeric, crack-bridging, waterproofing traffic system

Description	The Sikalastic 710/715/735 Traffic System urethane coating system designed for use bearing surfaces. Optional aliphatic top co components are: Sikalastic FTP primer (see separate data s Sikalastic MT primer (moisture-tolerant prin Sikalastic 710 Base one-component aromati Sikalastic 715 Top one-component aromati Sikalastic 735 AL Top, one-component alip Sikalastic 700 ACL optional accelerator	as a waterproofing bat provides enhand heet) ner - see separate o tic polyurethane ba c polyurethane top	membrane for pede ced UV resistance data sheet) se coat coat (suitable for UV	estrian and vehicular traffi and color stability. Syster / exposure)
Where to Use	Sikalastic 710/715/735 AL Traffic System is suitable for use on structurally sound concrete, cementitious plywood surfaces exposed to vehicular or pedestrian traffic. Multi-story parking garages Parking decks and ramps Foot bridges and walkways Mechanical rooms Stadiums and arenas Plaza and rooftop decks Balconies			
Advantages	<ul> <li>Excellent crack-bridging properties and</li> <li>Outstanding resistance to abrasion and</li> <li>Impervious to water and deicing salts</li> <li>Range of standard colors</li> </ul>		w temperatures	
Coverage	Coverage rates provided are intended to achieve required wet film thickness under optimal conditions. Add tional material may be required depending on substrate surface roughness and porosity, material and substrat temperatures, and other site-dependent factors. This will result in a lower coverage rate. See Sikalastic Aliphatic Decorative Top Coats data sheet for decorative guartz/flake systems.			
			0	ke systems.
Cure Mechanism	See Sikalastic Aliphatic Decorative Top Co Moisture Cure	ats data sheet for de	ecorative quartz/flak	ke systems.
	See Sikalastic Aliphatic Decorative Top Co	ats data sheet for da ails, 50 gal. (net) dru . pails - tint base) er carton) conditions @ 75°F	ecorative quartz/flak Ims (24°C) and 50% RI	H)
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SEALANT · WATERPROOFING & RESTORATION INSTITUTE

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Issued to: Sika Corporation Product: Sikalastic 710/715/735 AL Traffic

ASTM D 412: Tensile Strength of Topcoat Sikalastic 715 Topcoat: Tensile Strength: 3,068 psi

ASTM D 412: Tensile S Sikalastic 735 Topcoat:

No. 1015-

ASTM D 4541: Adhesion of Base ( Sikalastic 710 Base: Pull-off Adhes

> ion Date: 10/12/15-10/11/20 D15—SL710715735

DECK COATING VALIDATION www.swrionline.org

or CMExpert type concrete moisture meter. <b>Sikalastic FTP Primer –</b> For concrete decks with a maximum moisture content of 4% by weight, and for plywoo decks, apply Sikalastic FTP Primer with a flat squeegee or phenolic resin core roller at approximately 300 s gal. and work well into the substrate to ensure adequate penetration and sealing, and puddles are avoided Sikalastic FTP Primer is not suitable for metal substrates. Refer to separate primer data sheet for additional information. <b>Sikalastic FTP Lo-VOC Primer -</b> For exterior exposed concrete decks with a maximum moisture contert of 4% by weight, interior protected concrete decks with a maximum moisture content of 5% by weight, an plywood decks, apply Sikalastic FTP Lo-VOC Primer with a flat squeegee or phenolic resin core roller a approximately 300 sf/gal. and work well into the substrate to ensure adequate penetration and sealing, an
<ul> <li>Plywood- Should be clean and smooth, APA and exterior grade, not less than 1/2" thick, and spaced and supported according to APA guidelines. Joints should be sealed and detailed following deck priming, and manaded embedded fabric reinforcement.</li> <li>Metal- Should be thoroughly cleaned by grinding or blast cleaning.</li> <li>Priming</li> <li>Primer Selection - Determine maximum moisture content of concrete substrate by weight with a Tramex CM or CMExpert type concrete moisture meter.</li> <li>Sikalastic FTP Primer – For concrete decks with a maximum moisture content of 4% by weight, and for plywood decks, apply Sikalastic FTP Primer with a flat squeegee or phenolic resin core roller at approximately 300 s gal. and work well into the substrate to ensure adequate penetration and sealing, and puddles are avoided Sikalastic FTP Lo-VOC Primer - For exterior exposed concrete decks with a maximum moisture content of 5% by weight, and plywood decks, apply Sikalastic FTP Lo-VOC Primer - For exterior exposed concrete decks with a maximum moisture content of 5% by weight, and plywood decks, apply Sikalastic FTP Lo-VOC Primer with a flat squeegee or phenolic resin core roller of 5% by weight, and plywood decks, apply Sikalastic FTP Lo-VOC Primer with a flat squeegee or phenolic resin core roller of 5% by weight, and plywood decks, apply Sikalastic FTP Lo-VOC Primer with a flat squeegee or phenolic resin core roller of 5% by weight, and plywood decks, apply Sikalastic FTP Lo-VOC Primer with a flat squeegee or phenolic resin core roller of 5% by weight, and plywood decks, apply Sikalastic FTP Lo-VOC Primer with a flat squeegee or phenolic resin core roller of 5% by weight, and plywood decks, apply Sikalastic FTP Lo-VOC Primer with a flat squeegee or phenolic resin core roller of approximately 300 sf/gal. and work well into the substrate to ensure adequate penetration and sealing, and plywood decks, apply Sikalastic FTP Lo-VOC Primer with a flat squeegee or phenolic resin core roller or approximately 300 sf/gal.<!--</td--></li></ul>
<ul> <li>supported according to APA guidelines. Joints should be sealed and detailed following deck priming, and maneed embedded fabric reinforcement.</li> <li>Metal- Should be thoroughly cleaned by grinding or blast cleaning.</li> <li>Primer Selection - Determine maximum moisture content of concrete substrate by weight with a Tramex CM or CMExpert type concrete moisture meter.</li> <li>Sikalastic FTP Primer – For concrete decks with a maximum moisture content of 4% by weight, and for plywood decks, apply Sikalastic FTP Primer with a flat squeegee or phenolic resin core roller at approximately 300 s gal. and work well into the substrate to ensure adequate penetration and sealing, and puddles are avoided Sikalastic FTP Lo-VOC Primer - For exterior exposed concrete decks with a maximum moisture content of 5% by weight, and plywood decks, apply Sikalastic FTP Lo-VOC Primer with a flat squeegee or phenolic resin core roller at approximately and the substrate of 4% by weight, interior protected concrete decks with a maximum moisture content of 5% by weight, and plywood decks, apply Sikalastic FTP Lo-VOC Primer with a flat squeegee or phenolic resin core roller at approximately approximately 300 sf/gal. and work well into the substrate to ensure adequate penetration and sealing, and puddles are avoided for additional information.</li> </ul>
<ul> <li>Priming</li> <li>Primer Selection - Determine maximum moisture content of concrete substrate by weight with a Tramex CMI or CMExpert type concrete moisture meter.</li> <li>Sikalastic FTP Primer – For concrete decks with a maximum moisture content of 4% by weight, and for plywood decks, apply Sikalastic FTP Primer with a flat squeegee or phenolic resin core roller at approximately 300 s gal. and work well into the substrate to ensure adequate penetration and sealing, and puddles are avoided Sikalastic FTP Primer is not suitable for metal substrates. Refer to separate primer data sheet for additional information.</li> <li>Sikalastic FTP Lo-VOC Primer - For exterior exposed concrete decks with a maximum moisture content of 5% by weight, an plywood decks, apply Sikalastic FTP Lo-VOC Primer with a flat squeegee or phenolic resin core roller a approximately 300 sf/gal. and work well into the substrate to ensure adequate penetration and sealing, and puddles are avoided site according to the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the substrate of the s</li></ul>
<ul> <li>Primer Selection - Determine maximum moisture content of concrete substrate by weight with a Tramex CMI or CMExpert type concrete moisture meter.</li> <li>Sikalastic FTP Primer – For concrete decks with a maximum moisture content of 4% by weight, and for plywoo decks, apply Sikalastic FTP Primer with a flat squeegee or phenolic resin core roller at approximately 300 s gal. and work well into the substrate to ensure adequate penetration and sealing, and puddles are avoided Sikalastic FTP Primer is not suitable for metal substrates. Refer to separate primer data sheet for additional sealing.</li> </ul>
<ul> <li>decks, apply Sikalastic FTP Primer with a flat squeegee or phenolic resin core roller at approximately 300 s gal. and work well into the substrate to ensure adequate penetration and sealing, and puddles are avoided Sikalastic FTP Primer is not suitable for metal substrates. Refer to separate primer data sheet for additional information.</li> <li>Sikalastic FTP Lo-VOC Primer - For exterior exposed concrete decks with a maximum moisture contert of 4% by weight, interior protected concrete decks with a maximum moisture content of 5% by weight, an plywood decks, apply Sikalastic FTP Lo-VOC Primer with a flat squeegee or phenolic resin core roller a approximately 300 sf/gal. and work well into the substrate to ensure adequate penetration and sealing, an</li> </ul>
of 4% by weight, interior protected concrete decks with a maximum moisture content of 5% by weight, an plywood decks, apply Sikalastic FTP Lo-VOC Primer with a flat squeegee or phenolic resin core roller a approximately 300 sf/gal. and work well into the substrate to ensure adequate penetration and sealing, an
two applications of Sikalastic FTP Lo-VOC Primer are required. Sikalastic FTP Lo-VOC Primer is not suitabl for metal substrates. Refer to separate primer data sheet for additional information.
<b>Sikalastic PF Lo-VOC Primer</b> - For concrete and plywood decks with a porous or rough surface, and for meta flanges and penetrations, use Sikalastic PF Lo-VOC Primer. For exterior exposed concrete decks with a max mum moisture content of 4% by weight, interior protected concrete decks with a maximum moisture content of 5% by weight, and plywood decks, apply Sikalastic PF Lo-VOC Primer with a flat squeegee or phenolic resi core roller at approximately 200 sf/gal. and work well into the substrate to ensure adequate penetration an sealing, and puddles are avoided. For exterior exposed concrete decks with a maximum moisture content of 5% by weight, two applications of Sikalastic PF Lo-VOC Primer are required. Refer to separate primer dat sheet for additional information.
<b>Sikalastic MT Primer</b> - For concrete with a maximum moisture content of 5% by weight, and for metal flange and penetrations, apply Sikalastic MT Primer with a flat squeegee or roller at approximately 175 sf/gal. For concrete decks with a maximum moisture content of 6% by weight, apply two applications of Sikalastic M Primer with a flat squeegee or phenolic resin roller at approximately 175 sf/gal per application. Work prime well into the substrate to ensure adequate penetration and sealing, and puddles are avoided. Refer to separat primer data sheet for additional information.
<b>Sikalastic Recoat Primer –</b> For existing polyurethane coatings, incidental exposed concrete deck areas, an as an interlaminate primer, apply Sikalastic Recoat Primer with a flat squeegee or phenolic resin core rolle at approximately 300 sf/gal. and work will into the substrate to ensure adequate penetration and sealing, an puddles are avoided. Sikalastic Recoat Primer is not suitable for metal substrates. Refer to separate primer data sheet for additional information.
Primer Mixing
<b>Sikalastic FTP Primer –</b> Premix Part A and Part B components separately using a low speed (400-600 rpm mechanical mixer and Jiffy Paddle at slow speed to obtain uniform color (typically 30 seconds), making sure the solids from the bottom and sides of the pail. Sikalastic FTP Part B is dark olive green in color and may appear black in the container. Sikalastic FTP Part A is light amber in color. Add the 1 gallon of Sikalastic FTP Part A to the 1.25 gallons of Part B in the short filled Part B pail. Mix the combined material thorough until a homogenous mixture and uniform color is obtained (typically 3 minutes). This mixture will appear a light olive green color. Slowly add 1.25 gallons of potable water to the mixture under agitation. Mix for a additional 2 minutes until the mixture is fully dispersed. Fully dispersed material will appear as light yellow twhite in color.
<b>Sikalastic FTP Lo-VOC Primer -</b> Premix Part A (blue liquid) and Part B (yellow liquid) components separated using a low speed (400-600 rpm) mechanical mixer and Jiffy Paddle at slow speed to obtain uniform cold (typically 30 seconds), making sure to scrape the solids from the bottom and sides of the pail. For the 3 ga lon kit, pour Part B into Part A slowly and while mixing scrape the side of the container, For the 15 gallon kit pour Part A into a separate mixing vessel and then pour part B into Part A. Mixing ratio is 2 parts A to 1 part B Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically minutes). Use care not to allow the entrapment of air into the mixture. Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.



RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

**Sikalastic PF Lo-VOC Primer -** Premix Part A (black liquid) and Part B (white liquid) components separately using a low speed (400-600 rpm) mechanical mixer and Jiffy Paddle at slow speed to obtain uniform color (typically 30 seconds), making sure to scrape the solids from the bottom and sides of the pail. For both the 2 and 10 gallon kits, pour Part A into a separate mixing vessel and then pour part B into Part A. Mixing ratio is 1 part A to 1 part B. Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.

**Sikalastic MT Primer** - Premix Part A and Part B components separately using a low speed (400-600 rpm) mechanical mixer and Jiffy Paddle at slow speed to obtain uniform color (typically 30 seconds), making sure to scrape the solids from the bottom and sides of the pail. Pour Part B into Part A slowly and while mixing scrape the side of the container, Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.

Sikalastic Recoat Primer – Premix Part A and Part B components separately using a low speed (400-600 rpm) mechanical mixer and Jiffy Paddle at slow speed to obtain uniform color (typically 30 seconds), making sure to scrape the solids from the bottom and sides of the pail. Pour Part A into a separate container. Pour Part B into Part A slowly and while mixing scrape the side of the container. Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). In the event that a faster cure is required, Sikalastic Recoat Primer can be applied with Sikalastic 700 ACL as an accelerator. Add two quarts Sikalastic 700 ACL into 10 gallons of mixed primer. Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.

#### <u>Detailing</u>

**Non-structural cracks up to 1/16 inch** - Apply a detail coat of Sikalastic[®] 710 Base at 32 wet mils, 4" wide, centered over the crack. Allow to become tack free before overcoating.

**Cracks and joints over 1/16 up to 1 inch** - Rout and seal with Sikaflex[®] 2c or 1a sealant and allow to cure. Apply a detail coat of Sikalastic[®] 710 Base at 32 mils, 4" wide, centered over the crack. Allow to become tack free before over coating.

Joints over 1 inch - Should be treated as expansion joints and brought up through the Sikalastic[®] 710 Base waterproofing membrane and sealed with Sikaflex[®] 2c or 1a sealant.

**Fabric Reinforcement –** An optional 3" or 6" wide Sikalastic Flexitape Heavy fabric strip may be embedded within the base coat. Flexitape width shall be chosen such that a minimum of 1" tape is embedded on either side of the crack/joint. Apply additional coating as required to fully embed the Flexitape in the coating.

Panelized Joints - Panelized joints that are restrained across the joint and without differential movement may be sealed and the deck coating, including detail coat, applied over the joint.

NOTE: movement within panelized joints may cause deterioration of the aggregated wear coat, in which case the joints should be treated as expansion joints and brought up through the Sikalastic Traffic System and sealed with Sikaflex[®] 2c or 1a sealant. For additional questions please contact Sika Technical Services.

#### Base Coat

Thoroughly mix Sikalastic 710 Base using a low speed (400-600 rpm) drill with mechanical mixer (Jiffy) at slow speed until a homogenous mixture and color is obtained. Use care not to allow the entrapment of air into the mixture. Apply at the recommended coverage rate (see System Guide) using a 1/4" notched squeegee or trowel and backroll using a phenolic resin core roller. Extend base coat over entire area including previously detailed cracks and control joints. Allow coating to cure a minimum of 16 hours at 70 degrees F and 50% RH or until tack free before top coating.

#### Top Coats

Thoroughly mix Sikalastic 715 Top and Sikalastic 735 AL using a low speed (400-600 rpm) drill with mechanical mixer (Jiffy) at slow speed until a homogenous mixture and color is obtained. Use care not to allow the entrapment of air into the mixture. Apply at the recommended coverage rate (see System Guide) using a 3/16" notched squeegee or trowel, or phenolic resin core roller, and backroll. Apply aggregate evenly distributed at the appropriate rate immediately into wet coating and backroll if required (see System Guide). Allow coating to cure a minimum of 16 hours at 70 degrees F and 50% RH or until tack free between coats, and a minimum of 72 hours before opening to vehicular traffic.

#### Aggregate

Use clean, rounded, oven dried quartz sand with a minimum gradation of 16-30 or 12-20 mesh for vehicular traffic and 20-40 mesh for pedestrian traffic, and a minimum hardness of 6.5 per the Moh's scale. It should be supplied in pre-packaged bags and free of metallic or other impurities. Seeding of aggregate means and even, light broadcast short of to refusal. Any loose aggregate must be removed prior to recoating. Backroll aggregate only where indicated.



#### Accelerator

Sikalastic 700 ACL may be added to Sikalastic 710 Base or 715 Top in order to speed cure time particularly in cold weather conditions. The use of Sikalastic 700 ACL is required for all Sikalastic 715 and 735 AL applications exceeding 19 wet mils. Mix thoroughly prior to application. Add a maximum of 1 quart to 5 gallons (or 1:20 ratio) and only to material that will be applied the same day.

System Guide	Pedestrian Traffic	Heavy Pedestrian /Light Vehicular	Heavy Vehicular Traffic - Seed and Lock	Heavy Vehicular Traffic - Seed and Backroll
Primer	Sikalastic FTP - 300 sf/gal.	Consult Sika for other primer	options for recover and high	moisture content substrates.
710 Detail Coat		32 mils wet over properly	r treated cracks and joints.	
710 Base Coat		32 mils wet (23 m	nils dry) - 50 sf/gal.	
715 / 735 AL Top Coat I	14 mils wet (10 mils dry) - 115 sf/gal	11 mils wet (8 mils dry) - 145 sf/gal	11 mils wet (8 mils dry) - 145 sf/gal	22* mils wet (16 mils dry) - 73 sf/gal (See NOTE)
Aggregate	5-10 lbs/100 sf -seeded/ backrolled	10-15 lbs/100 sf -seeded/ backrolled	10-15 lbs/100 sf -seeded	15-20 lbs/100 sf -seeded/ backrolled
715 / 735 AL Top Coat II		16 mils wet (12 mils dry) - 100 sf/gal	16 mils wet (12 mils dry) - 100 sf/gal	22* mils wet (16 mils dry) - 73 sf/gal (See NOTE)
Aggregate			10-15 lbs/100 sf -seeded	15-20 lbs/100 sf -seeded/ backrolled
715/735 AL Top Coat III			16 mils wet (12 mils dry) - 100 sf/gal	
Total Thickness	33 mils dry (excluding aggregate)	43 mils dry (excluding aggregate)	55 mils dry (excluding aggregate)	55 mils dry (excluding aggregate)
See separate Sikalastic	[®] Aliphatic Top Coats data	sheet for DecoQuartz [®] an	nd DecoFlake [®] systems.	
NOTE: *Requires use of 7	00 ACL Accelerator with 715	Top Coat, and 735 AL Top C	Coat	
	ovided are optimal and are nate selection and embedmer			mperature, surface rough-

#### Recoat Windows

In the event of an unforeseen rain event or delays beyond the stated recoat window referenced in each product's current PDS, observe the following.

Product	Recoat Window	Required Surface Preparation After Recoat Window is Exceeded
Sikalastic FTP	Tack-free to 48 hours	Heavily abrade and reprime
Sikalastic FTP Lo-VOC	Tack-free to 16 hours	Heavily abrade and reprime
Sikalastic PF Lo-VOC	Tack-free to 16 hours	Heavily abrade and reprime
Sikalastic MT	Tack-free to 48 hours	Heavily abrade and reprime
Sikalastic Recoat	Tack-free to 12 hours	Heavily abrade and reprime
Sikalastic Recoat with 700 ACL Accelerator	Tack-free to 6 hours	Heavily abrade and reprime
Sikalastic 710	Tack-free to 48 hours	Clean and solvent wipe <u>or</u> Clean and Sikalastic Recoat Primer
Sikalastic 710 with 700 ACL Accelerator	Tack-free to 24 hours	Clean and solvent wipe <u>or</u> Clean and Sikalastic Recoat Primer
Sikalastic 715	Tack-free to 48 hours	Clean and solvent wipe <u>or</u> Clean and Sikalastic Recoat Primer
Sikalastic 715 with 700 ACL Accelerator	Tack-free to 24 hours	Clean and solvent wipe <u>or</u> Clean and Sikalastic Recoat Primer
Sikalastic 735 AL	Tack-free to 48 hours	Abrade, clean and solvent wipe <u>or</u> Abrade, clean and Sikalastic Recoat Primer
Sikalastic 735 AL with 700 ACL Accelerator	Tack-free to 24 hours	Abrade, clean and solvent wipe <b>or</b> Abrade, clean and Sikalastic Recoat Primer

Notes:

- 1. Heavy abrasion of epoxy-based materials is intended to achieve an open, porous surface and to remove any amine blush that may interfere with bonding.
- 2. Abrasion of polyurethane-based materials is intended to achieve an open, porous surface.



	3. Cleaning is intended to remove dirt, debris, contaminants, and residue from mechanical surface
	preparation methods.
	<ol> <li>Recommended solvents include high quality xylene and acetone. Handling and use of all solvents must be done in accordance with the manufacturer's warnings and instructions for use.</li> </ol>
Removal	Remove liquid resin immediately with dry cloth. Once cured, resin can only be removed by mechanical means
Maintenance/Repair	Clean with non-sudsing detergent and water and inspect regularly for mechanical damage. Snow remove equipment must have shoes, rubber tips or small skis to prevent ruptures. The use of metal blades withou protection is not recommended. Damaged areas should be repaired promptly. Remove delaminated coatin back to well adhered material and reinstall patch according to procedures described above. Do not use aspha or tar modified products. Consult a Sika representative for recommendations on top coat or wearing surface restoration.
imitations	<ul> <li>Testoration.</li> <li>To avoid dew point conditions during application relative humidity must be no more than 95% and substrate temperature must be at least 5°F (3°C) above measured dew point temperature.</li> <li>Maximum moisture content of concrete substrate by weight when measured with a Tramex CME or CMExpert type concrete moisture meter. 4% for Sikalastic FTP Lo-VOC Primer, 5% for exterior exposed decks with one application of Sikalastic FTP Lo-VOC Primer or Sikalastic PF Lo-VOC Primer; 5% for interior protected decks with one application of Sikalastic FTP Lo-VOC Primer or Sikalastic PF Lo-VOC Primer; 5% for interior protected decks with one application of Sikalastic MT Primer. (see separate Primer product data sheets).</li> <li>Minimum ambient and substrate temperature during application and curing of material is 40°F (4°C); maximum is 95°F (35C). Frequent monitoring of ambient and substrate temperatures sould always be done when applying polyurethane coatings. Note that low temperatures and low humidity will slow down the cure, and high temperatures and high humidity will accelerate it.</li> <li>Coating materials will become more viscous at lower application temperatures and be more difficult to spread, which may affect yield.</li> <li>Do not store materials outdoors directly exposed to sunlight and moisture. Cover and protect materials with breathable type covers such as canvas tarpaulins to allow venting and protection from weather and moisture. Observe temperature storage and conditioning requirements.</li> <li>Do not thin with solvents.</li> <li>Use properly graded, oven dried aggregates only.</li> <li>Minimum age of concrete must be 21-28 days, depending on curing and drying conditions.</li> <li>Any repairs required to achieve a level surface musts and through-wall air conditioners, and other means of vapor/odor ingress during application and cure.</li> <li>Do not apply to a porous or damp surface where moisture vapor transmission will occur during application and cure.</li> <li>Substrate m</li></ul>
	<ul> <li>continuous immersion.</li> <li>Sikalastic 710 Base coat is not UV stable and must be top coated.</li> <li>Sikalastic 715 Top coat is UV resistant, but will chalk, fade or discolor over time when exposed to UV and under certain artificial lighting conditions. Sikalastic 735 AL aliphatic top coat provides superior color and gloss retention.</li> </ul>
	<ul> <li>Base and intermediate coats must be kept clean and re-coated within 48 hours, or within 24 hours if Accelerator is used. If this recoat window is exceeded, contact Sika for recommendations.</li> <li>Mockups to verify application methods and substrate conditions as well as desired skid resistance and aesthetics are highly recommended.</li> </ul>

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PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE-PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY.

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart-ment at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.

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1-800-933-SIKA NATIONWIDE





## Sikalastic[®] 710 Lo-VOC/715 Lo-VOC/736 AL Lo-VOC Traffic System

Single component, low VOC, elastomeric, crack-bridging, waterproofing traffic system

Description	VOC, moisture cured, elastomeric polyure for pedestrian and vehicular traffic bearin to two-component products. Optional alip System components are: Sikalastic FTP Primer (see separate data Sikalastic FTP Lo-VOC primer (see separa Sikalastic PF Lo-VOC primer (see separa Sikalastic T10 Base Lo-VOC one-compone Sikalastic 715 Top Lo-VOC one-compone for UV exposure)	rate data sheet) ate data sheet)
Where to Use	Sikalastic 710 Lo-VOC/715 Lo-VOC/736 concrete, cementitious or plywood surfac Multi-story parking garages Parking decks and ramps Foot bridges and walkways Mechanical rooms Stadiums and arenas Plaza and rooftop decks Balconies	AL Lo-VOC Traffic System is suitable for use on structurally sound es exposed to vehicular or pedestrian traffic.
Advantages	<ul> <li>Fast turnaround with optional Booste</li> <li>Excellent crack-bridging properties an</li> <li>Outstanding resistance to abrasion a</li> <li>Impervious to water and deicing salts</li> <li>Range of standard colors</li> </ul>	nd flexibility, even at low temperatures nd wear
Coverage	tional material may be required depending temperatures, and other site-dependent f	achieve required wet film thickness under optimal conditions. Addi on substrate surface roughness and porosity, material and substrate actors. This will result in a lower coverage rate. toats data sheet for decorative quartz/flake systems.
Cure Mechanism	Moisture Cure	. ,
Packaging		
	Typical Data (Material and curing co RESULTS MAY DIFFER BASED UPON STATISTICAL VAR. METHODS, TEST METHODS, ACTUAL SITE CONDITIONS Shelf Life: Storage Conditions: Product Conditioning: Colors: Sikalastic 710 Base Lo-VOC: Sikalastic 715 Top Lo-VOC: Sikalastic 736 AL Lo-VOC: UV Resistance and Recovery	Inditions @ 75°F (24°C) and 50% RH) ATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION AND CURING CONDITIONS. 1 year in original, unopened containers Store dry at 40°-95°F (4°-35°C). Condition material to 65°-85°F (18°-30°C) before using. Gray Gray Gray, Charcoal and Tan Gray, Charcoal and Tan. Gray, Charcoal and Tan. Custom colors available PASS



	710 Base Lo-VOC w/o Booster	710 Base Lo-VOC w/ Booster	715 Top Lo-VOC w/o Booster	715 Top Lo-VOC w/ Booster	736 AL Lo-VOC
Viscosity	6500 ± 3000 cps	6500 ± 3000 cps	4000 ± 2000 cps	4000 ± 2000 cps	3500 ± 700 cps
Total Volume Solids (ASTM D-2697):	89%	89%	89%	88%	83%
VOC Content (ASTM D-2369-81):	93 g/L	100 g/L	96 g/L	100 g/L	99 g/L
Tensile Strength (ASTM D-412):	1200 ± 300 psi	1350 ± 300 psi	3400 ± 300 psi	3400 ± 300 psi	4000 ± 300 psi
Elongation at Break (ASTM D-412):	450 ± 50%	500 ± 50%	450 ± 50%	450 ± 50%	250 ± 50%
Tear Resistance (Die C, ASTM D-624):	195 ± 25 pli	195 ± 25 pli	350 ± 50 pli	350 ± 50 pli	400 ± 50 pli
Hardness (ASTM D-2240):	75 ± 5 Shore A	60 ± 5 Shore A	85 ± 5 Shore A	80 ± 5 Shore A	90 ± 5 Shore A

#### How to Use

Surface Preparation Surface must be clean, dry and sound with an open texture. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes, and any other contaminants. All projections, rough spots, etc. should be dressed off to achieve a level surface prior to application.

**Concrete** - Should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by blast cleaning or equivalent mechanical means (CSP 3-4 per ICRI guidelines).

Route out all cracks and joints as part of surface preparation

**Plywood** - Should be clean and smooth, APA and exterior grade, not less than 1/2" thick, and spaced and supported according to APA guidelines. Seams should be sealed with Sikaflex 2c or 1a and detailed and may need embedded fabric reinforcement.

Metal - Should be thoroughly cleaned by grinding or blast cleaning to near white metal (SSPC SPS-10).

#### Application

Priming

**Primer Selection -** Determine maximum moisture content of concrete substrate by weight with a Tramex CME or CMExpert type concrete moisture meter.

Sikalastic FTP Primer – For concrete decks with a maximum moisture content of 4% by weight, and for plywood decks, apply Sikalastic FTP Primer with a flat squeegee or phenolic resin core roller at approximately 300 sf/gal. and work well into the substrate to ensure adequate penetration and sealing, and puddles are avoided. Sikalastic FTP Primer is not suitable for metal substrates. Refer to separate primer data sheet for additional information.

**Sikalastic FTP Lo-VOC Primer** - For exterior exposed concrete decks with a maximum moisture content of 4% by weight, interior protected concrete decks with a maximum moisture content of 5% by weight, and plywood decks, apply Sikalastic FTP Lo-VOC Primer with a flat squeegee or phenolic resin core roller at approximately 300 sf/gal. and work well into the substrate to ensure adequate penetration and sealing, and puddles are avoided. For exterior exposed concrete decks with a maximum moisture content of 5% by weight, two applications of Sikalastic FTP Lo-VOC Primer are required. Sikalastic FTP Lo-VOC Primer is not suitable for metal substrates. Refer to separate primer data sheet for additional information.

**Sikalastic PF Lo-VOC Primer** - For concrete and plywood decks with a porous or rough surface, and for metal flanges and penetrations, use Sikalastic PF Lo-VOC Primer. For exterior exposed concrete decks with a maximum moisture content of 4% by weight, interior protected concrete decks with a maximum moisture content of 5% by weight, and plywood decks, apply Sikalastic PF Lo-VOC Primer with a flat squeegee or phenolic resin core roller at approximately 200 sf/gal. and work well into the substrate to ensure adequate penetration and sealing, and puddles are avoided. For exterior exposed concrete decks with a maximum moisture content of 5% by weight, two applications of Sikalastic PF Lo-VOC Primer are required. Refer to separate primer data sheet for additional information.

**Sikalastic MT Primer** - For concrete with a maximum moisture content of 5% by weight, and for metal flanges and penetrations, apply Sikalastic MT Primer with a flat squeegee or roller at approximately 175 sf/gal. For concrete decks with a maximum moisture content of 6% by weight, apply two applications of Sikalastic MT Primer with a flat squeegee or phenolic resin roller at approximately 175 sf/gal per application. Work primer well into the substrate to ensure adequate penetration and sealing, and puddles are avoided. Refer to separate primer data sheet for additional information.

Sikalastic Recoat Primer – For existing polyurethane coatings, incidental exposed concrete deck areas, and as an interlaminate primer, apply Sikalastic Recoat Primer with a flat squeegee or phenolic resin core roller at approximately 300 sf/gal. and work will into the substrate to ensure adequate penetration and sealing, and puddles are avoided. Sikalastic Recoat Primer is not suitable for metal substrates. Refer to separate primer data sheet for additional information.



#### Primer Mixing

**Sikalastic FTP Primer –** Premix Part A and Part B components separately using a low speed (400-600 rpm) mechanical mixer and Jiffy Paddle at slow speed to obtain uniform color (typically 30 seconds), making sure to scrape the solids from the bottom and sides of the pail. Sikalastic FTP Part B is dark olive green in color and may appear black in the container. Sikalastic FTP Part A is light amber in color. Add the 1 gallon of Sikalastic FTP Part A to the 1.25 gallons of Part B in the short filled Part B pail. Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). This mixture will appear as a light olive green color. Slowly add 1.25 gallons of potable water to the mixture under agitation. Mix for an additional 2 minutes until the mixture is fully dispersed. Fully dispersed material will appear as light yellow to white in color.

**Sikalastic FTP Lo-VOC Primer** - Premix Part A (blue liquid) and Part B (yellow liquid) components separately using a low speed (400-600 rpm) mechanical mixer and Jiffy Paddle at slow speed to obtain uniform color (typically 30 seconds), making sure to scrape the solids from the bottom and sides of the pail. For the 3 gallon kit, pour Part B into Part A slowly and while mixing scrape the side of the container, For the 15 gallon kit, pour Part A into a separate mixing vessel and then pour part B into Part A. Mixing ratio is 2 parts A to 1 part B. Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.

**Sikalastic PF Lo-VOC Primer -** Premix Part A (black liquid) and Part B (white liquid) components separately using a low speed (400-600 rpm) mechanical mixer and Jiffy Paddle at slow speed to obtain uniform color (typically 30 seconds), making sure to scrape the solids from the bottom and sides of the pail. For both the 2 and 10 gallon kits, pour Part A into a separate mixing vessel and then pour part B into Part A. Mixing ratio is 1 part A to 1 part B. Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.

**Sikalastic MT Primer** - Premix Part A and Part B components separately using a low speed (400-600 rpm) mechanical mixer and Jiffy Paddle at slow speed to obtain uniform color (typically 30 seconds), making sure to scrape the solids from the bottom and sides of the pail. Pour Part B into Part A slowly and while mixing scrape the side of the container, Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.

Sikalastic Recoat Primer – Premix Part A and Part B components separately using a low speed (400-600 rpm) mechanical mixer and Jiffy Paddle at slow speed to obtain uniform color (typically 30 seconds), making sure to scrape the solids from the bottom and sides of the pail. Pour Part A into a separate container. Pour Part B into Part A slowly and while mixing scrape the side of the container. Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). In the event that a faster cure is required, Sikalastic Recoat Primer can be applied with Sikalastic 700 ACL as an accelerator. Add two quarts Sikalastic 700 ACL into 10 gallons of mixed primer. Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.

#### <u>Detailing</u>

**Non-structural cracks up to 1/16 inch -** Apply a detail coat of Sikalastic[®] 710 Lo-VOC Base (with Booster if required) at 26 wet mils, 4" wide, centered over the crack. Allow to become tack free before overcoating.

**Cracks and joints over 1/16 up to 1 inch** - Rout and seal with Sikaflex[®] 2c or 1a sealant and allow to cure. Apply a detail coat of Sikalastic[®] 710 Lo-VOC Base at 26 mils, 4" wide, centered over the crack. Allow to become tack free before over coating.

Joints over 1 inch - Should be treated as expansion joints and brought up through the Sikalastic[®] 710 Lo-VOC Base waterproofing membrane and sealed with Sikaflex[®] 2c or 1a sealant.

**Fabric Reinforcement –** An optional 3" or 6" wide Sikalastic Flexitape Heavy fabric strip may be embedded within the base coat. Flexitape width shall be chosen such that a minimum of 1" tape is embedded on either side of the crack/joint. Apply additional coating as required to fully embed the Flexitape in the coating.

**Panelized Joints** - Panelized joints that are restrained across the joint and without differential movement may be sealed and the deck coating, including detail coat, applied over the joint.

NOTE: movement within panelized joints may cause deterioration of the aggregated wear coat, in which case the joints should be treated as expansion joints and brought up through the Sikalastic Traffic System and sealed with Sikaflex[®] 2c or 1a sealant. For additional questions please contact Sika Technical Services.

#### Base Coat

Thoroughly mix Sikalastic 710 Base Lo-VOC using a low speed (400-600 rpm) drill with mechanical mixer (Jiffy) at slow speed until a homogenous mixture and color is obtained. Add Sikalastic 710 Base Lo-VOC Booster (if required) into premixed coating and continue mixing until homogenous mixture and color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Apply at the recommended coverage rate (see System Guide) using a 1/4" notched squeegee or trowel and backroll using a phenolic resin core



roller. Extend base coat over entire area including previously detailed cracks and control joints. Allow coating to cure a minimum of 16 hours (6 hours with Booster) at 70°F and 50% RH or until tack free before top coating.

#### Top Coats

Thoroughly mix Sikalastic 715 Top Lo-VOC using a low speed (400-600 rpm) drill with mechanical mixer (Jiffy) at slow speed until a homogenous mixture and color is obtained. Add Sikalastic 715 Top Lo-VOC Booster (if required) into premixed coating and continue mixing until homogenous mixture and color is obtained (typically 3 minutes). Add a maximum of 1 quart to 4.75 gallons (or 1:19 ratio) and only to material that will be applied in the next hour. Use care not to allow the entrapment of air into the mixture. Apply at the recommended coverage rate (see System Guide) using a 3/16" notched squeegee or trowel, or phenolic resin core roller, and backroll. Apply aggregate evenly distributed at the appropriate rate immediately into wet coating and backroll if required (see System Guide). Allow coating to cure a minimum of 16 hours (6 hours with Booster) 70 degrees F and 50% RH or until tack free between coats, and a minimum of 72 hours (36 hours with Booster) before opening to vehicular traffic.

Thoroughly mix Sikalastic 736 AL Lo-VOC using a low speed (400-600 rpm) drill with mechanical mixer (Jiffy) at slow speed until a homogenous mixture and color is obtained. Add Sikalastic 700 ACL accelerator in order to speed cure time particularly in cold weather conditions (if required) into premixed coating and continue mixing until homogenous mixture and color is obtained (typically 3 minutes). Add a maximum of 1 quart to 5 gallons (or 1:20 ratio) and only to material that will be applied the same day. Use care not to allow the entrapment of air into the mixture. Apply at the recommended coverage rate (see System Guide) using a 3/16" notched squeegee or trowel, or phenolic resin core roller, and backroll. Apply aggregate evenly distributed at the appropriate rate immediately into wet coating and backroll if required (see System Guide). Allow coating to cure a minimum of 16 hours (6 hours with Accelerator at) 70 degrees F and 50% RH or until tack free between coats, and a minimum of 72 hours (36 hours with Accelerator) before opening to vehicular traffic.

#### Aggregate

Use clean, rounded, oven dried quartz sand with a minimum gradation of 16-30 or 12-20 mesh for vehicular traffic and 20-40 mesh for pedestrian traffic, and a minimum hardness of 6.5 per the Moh's scale. It should be supplied in pre-packaged bags and free of metallic or other impurities. Seeding of aggregate means and even, light broadcast short of to refusal. Any loose aggregate must be removed prior to recoating. Backroll aggregate only where indicated.

#### **Boosters**

Sikalastic 710 Lo-VOC Booster may be added to Sikalastic 710 Lo-VOC Base in order to speed cure time. Sikalastic 715 Lo-VOC Booster may be added to Sikalastic 715 Lo-VOC Top in order to speed cure time. **The use of Sikalastic 715 Lo-VOC Booster is required for all Sikalastic 715 Lo-VOC applications exceeding 19 wet mils.** Boosters are product specific – use Sikalastic 710 Lo-VOC Booster with Sikalastic 710 Lo-VOC Base, and use Sikalastic 715 Lo-VOC Booster with Sikalastic 715 Lo-VOC Booster vith Sikalastic 715 Lo-VOC Top. Mix thoroughly prior to application. Add a maximum of 1 quart to 4.75 gallons (or 1:19 ratio) and only to material that will be applied within 45 minutes typical.

#### Accelerator

Sikalastic 700 ACL may be added to Sikalastic 736 AL Lo-VOC in order to speed cure time particularly in cold weather conditions. The use of Sikalastic 710 ACL is required for all Sikalastic 736 AL Lo-VOC applications exceeding 19 wet mils. Mix thoroughly prior to application. Add a maximum of 1 quart to 5 gallons (or 1:20 ratio) and only to material that will be applied the same day.



System Guide	Pedestrian Traffic	Heavy Pedestrian / Light Vehicular - Seed and Lock	Heavy Pedestrian / Light Vehicular Seed and Backroll**	Heavy Vehicular Traffic - Seed and Lock	Heavy Vehicular Traffic - Seed and Backroll
Primer	Sikafloor FTP - 30	) sf/gal. Consult Sika for	other primer options for re	ecover and high moisture	content substrates.
710 Base Lo-VOC Detail Coat		26 mils wet	over properly treated crac	cks and joints.	
710 Base Lo-VOC Base Coat		26 m	nils wet (23 mils dry) - 61	sf/gal.	
715 Top Lo-VOC /736 AL Lo-VOC Top Coat I*	11/12 mils wet (10 mils dry) - 145/133 sf/gal	9/10 mils wet (8 mils dry) - 178/160 sf/gal	23**/24** mils wet (20 mils dry) - 69/67 sf/gal (see NOTE)	9/10 mils wet (8 mils dry) - 178/160 sf/gal	18/19 mils wet (16 mils dry) - 89/84 sf/gal
Aggregate	5-10 lbs/100 sf -seeded/backrolled	10-15 lbs/100 sf -seeded	15-20 lbs/100 sf - seeded/backrolled	10-15 lbs/100 sf -seeded	15-20 lbs/100 sf -seeded/backrolled
715 Top Lo-VOC /736 AL Lo-VOC Top Coat II*		13/14 mils wet (12 mils dry) - 123/114 sf/gal		13/14 mils wet (12 mils dry) - 123/114 sf/gal	18/19 mils wet (16 mils dry) - 89/84 sf/gal
Aggregate				10-15 lbs/100 sf -seeded	15-20 lbs/100 sf -seeded/backrolled
715 Top Lo-VOC /736 AL Lo-VOC Top Coat III*				13/14 mils wet (12 mils dry) - 123/114 sf/gal	
Total Thickness	33 mils dry (excluding aggregate)	43 mils dry (excluding aggregate)	43 mils dry (excluding aggregate)	55 mils dry (excluding aggregate)	55 mils dry (excluding aggregate)
NOTE: *Wet mil and co	overage information provid	led separately for both 7 [°]	15 Top Lo-VOC/736 AL Lo	o-VOC Top Coats	
NOTE: **Requires use	of 715 Top Lo-VOC Boos	ter with 715 Top Lo-VOC	Top Coat, and 700 ACL A	Accelerator with 736 AL L	o-VOC Top Coat
	provided are optimal and ection and embedment, a			ending on temperature, s	surface roughness and

Recoat Windows

In the event of an unforeseen rain event or delays beyond the stated recoat window referenced in each product's current PDS, observe the following.

Product	Recoat Window	Required Surface Preparation After Recoat Window is Exceeded
Sikalastic FTP	Tack-free to 48 hours	Heavily abrade and reprime
Sikalastic FTP Lo-VOC	Tack-free to 16 hours	Heavily abrade and reprime
Sikalastic PF Lo-VOC	Tack-free to 16 hours	Heavily abrade and reprime
Sikalastic MT	Tack-free to 48 hours	Heavily abrade and reprime
Sikalastic Recoat	Tack-free to 12 hours	Heavily abrade and reprime
Sikalastic Recoat with 700 ACL Accelerator	Tack-free to 6 hours	Heavily abrade and reprime
Sikalastic 710 Lo-VOC	Tack-free to 48 hours	Clean and solvent wipe or Clean and Sikalastic Recoat Primer
Sikalastic 710 Lo-VOC with 710 Lo-VOC Booster	6-24 hours	Clean and solvent wipe or Clean and Sikalastic Recoat Primer
Sikalastic 715 Lo-VOC	Tack-free to 48 hours	Clean and solvent wipe or Clean and Sikalastic Recoat Primer
Sikalastic 715 Lo-VOC with 715 Lo-VOC Booster	6-24 hours	Clean and solvent wipe or Clean and Sikalastic Recoat Primer
Sikalastic 736 AL Lo-VOC	48 hours	Abrade, clean and solvent wipe or Abrade, clean and Sikalastic Recoat Primer
Sikalastic 736 AL Lo-VOC with 700 ACL Accelerator	24 hours	Abrade, clean and solvent wipe or Abrade, clean and Sikalastic Recoat Primer

Notes:

1. Heavy abrasion of epoxy-based materials is intended to achieve an open, porous surface and to re move any amine blush that may interfere with bonding.

- 2. Abrasion of polyurethane-based materials is intended to achieve an open, porous surface.
- 3. Cleaning is intended to remove dirt, debris, contaminants, and residue from mechanical surface preparation methods.
- 4. Recommended solvents include high quality xylene and acetone. Handling and use of all solvents must be done in accordance with the manufacturer's warnings and instructions for use.



Removal	Remove liquid resin immediately with dry cloth. Once cured, resin can only be removed by mechanical means
<i>llaintenance/Repair</i>	Clean with non-sudsing detergent and water and inspect regularly for mechanical damage. Snow removal equip- ment must have shoes, rubber tips or small skis to prevent ruptures. The use of metal blades without protection is not recommended. Damaged areas should be repaired promptly. Remove delaminated coating back to wel adhered material and reinstall patch according to procedures described above. Do not use asphalt or tar modified products. Consult a Sika representative for recommendations on top coat or wearing surface restoration.
Limitations	<ul> <li>To avoid dew point conditions during application relative humidity must be no more than 95% and substrate temperature must be at least 5°F (3°C) above measured dew point temperature.</li> <li>Maximum moisture content of concrete substrate by weight when measured with a Tramex CME or CMExpert type concrete moisture meter: 4% for Sikalastic FTP Primer; 4% for exterior exposed decks with one application of Sikalastic FTP Lo-VOC Primer or Sikalastic PF Lo-VOC Primer; 5% for exterior exposed decks with two applications of Sikalastic FTP Lo-VOC Primer or Sikalastic PF Lo-VOC Primer; 5% for exterior and interior decks with one application of Sikalastic FTP Lo-VOC Primer or Sikalastic PF Lo-VOC Primer; 5% for exterior and interior decks with one application of Sikalastic MT Primer; 6% for exterior and interior decks with two applications of Sikalastic MT Primer. (see separate Primer product data sheets).</li> <li>Minimum ambient and substrate temperature during application and curing of material is 40°F (4°C); maximum is 95°F (35°C). Frequent monitoring of ambient and substrate temperature should always be done when applying polyurethane coatings. Note that low temperatures and low humidity will slow down the cure, and high temperatures and high humidity will accelerate it.</li> <li>Coating materials will become more viscous at lower application temperatures and be more difficult to spread, which may affect yield.</li> <li>Do not store materials outdoors directly exposed to sunlight and moisture. Cover and protect materials with breathable type covers such as canvas tarpaulins to allow venting and protection from weather and moisture. Observe temperature storage and conditioning requirements.</li> <li>Do not thin with solvents.</li> <li>Use properly graded, oven dried aggregates only.</li> <li>Minimum age of concrete must be 21-28 days, depending on curing and drying conditions.</li> </ul>
	<ul> <li>Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various product solutions). Surface irregularities may reflect through the cured system.</li> <li>Precautions should be taken to prevent vapors and/or odors from entering the building/structure, including but not limited to turning off and sealing air intake vents and through-wall air conditioners, and</li> </ul>
	<ul> <li>other means of vapor/odor ingress during application and cure.</li> <li>Do not apply to a porous or damp surface where moisture vapor transmission will occur during application and cure.</li> </ul>
	<ul> <li>Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Do not proceed if rain is imminent within 8-12 hours of application. Allow sufficient time for the substrate to dry after rain or inclement weather as there is the potential for bonding problems.</li> <li>When applying over existing coatings compatibility and adhesion testing is recommended.</li> <li>Opening prior to final cure may result in loss of aggregate, or permanent staining and subsequent premature failure.</li> </ul>
	<ul> <li>Vehicle fluids and some high performance tires can stain the coating. Fluid spills should be removed promptly as the coating can in some cases be damaged from prolonged exposure.</li> <li>On grade, lightweight concrete, asphalt pavement, or insulated split slab applications, or applications where chained or studded tires may be used should not be coated with Sikalastic Traffic Systems.</li> <li>Unvented metal pan decks or decks containing a between-slab membrane require further technical evaluation and priming with a moisture-tolerant primer - contact Sika regarding recommendations.</li> <li>Do not subject to continuous immersion.</li> <li>Base coat is not UV stable and must be top coated.</li> </ul>
	<ul> <li>Sikalastic 715 Top Lo-VOC is UV resistant, but will chalk, fade or discolor over time when exposed to UV and under certain artificial lighting conditions. Sikalastic 736 AL Lo-VOC aliphatic top coat provides superior color and gloss retention.</li> </ul>
	<ul> <li>Base and intermediate coats must be kept clean and re-coated within 48 hours, or 24 hours if Accelerator or Boosters are used.</li> <li>Mockups to verify application methods and substrate conditions as well as desired skid resistance and aesthetics are highly recommended.</li> </ul>
INS SHE PAR TO I	Mockups to verify application methods and substrate conditions as well as desired skid resistance and
KEEP ( For fu actua befor	CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY inther information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to th I Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Shee e using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.
Data s ment	to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Produc Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction ch Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on SIAA warrants this product for one year from date of instantion to be ree from manufacturing defects and to meet the technical properties of the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.

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Sika Canada Inc. 601 Delmar Avenue Pointe Claire Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792

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F30

### Sikalastic[®] 710 NP Base

Single component, elastomeric, crack-bridging, primerless, waterproofing base coat

Description	tended for use as the waterproofing base of and vehicular traffic bearing applications, and	t, aromatic, moisture cured, elastomeric polyurethane coating in- coat under polyurethane or epoxy wearing surfaces for pedestrian nd as the waterproofing base coat under a separate wearing course . Sikalastic 710 NP is a direct replacement for Sikalastic 710 in all	
Where to Use	<ul> <li>Multi-story parking garages</li> <li>Parking decks and ramps</li> <li>Foot bridges and walkways</li> <li>Mechanical rooms</li> <li>Stadiums and arenas</li> <li>Plaza and rooftop decks</li> <li>Balconies</li> </ul>		
Advantages	<ul> <li>Excellent crack-bridging properties and</li> <li>Primer not required for typical applicati</li> <li>Resistant to water and deicing salts</li> <li>Alkaline resistant</li> </ul>		
Coverage	50 ft²/gal. @ 32 wet mils (23 dry mils). NOTE: Coverage rates provided are optimal and are not guaranteed. Coverage rates will vary depending of temperature, surface roughness and porosity, aggregate selection and embedment, and application technique		
	temperature, surface roughness and porosi	ty, aggregate selection and embedment, and application technique.	
Cure Mechanism	temperature, surface roughness and porosi Moisture Cure	ty, aggregate selection and embedment, and application technique.	
		ty, aggregate selection and embedment, and application technique.	
	Moisture Cure	ty, aggregate selection and embedment, and application technique.	
Chemical Resistance	Moisture Cure Resistant to de-icing salts. 5 gal. pails, 50 gal. (net) drums. <b>Typical Data (Material and curing con</b> RESULTS MAY DIFFER BASED UPON STATISTICAL VARIAT METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND	ditions @ 75°F (24°C) and 50% RH) IONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION ND CURING CONDITIONS.	
Chemical Resistance	Moisture Cure Resistant to de-icing salts. 5 gal. pails, 50 gal. (net) drums. Typical Data (Material and curing con RESULTS MAY DIFFER BASED UPON STATISTICAL VARIAT METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AT Shelf Life:	ditions @ 75°F (24°C) and 50% RH) IONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION ND CURING CONDITIONS. 1 year in original, unopened containers	
Chemical Resistance	Moisture Cure Resistant to de-icing salts. 5 gal. pails, 50 gal. (net) drums. Typical Data (Material and curing con RESULTS MAY DIFFER BASED UPON STATISTICAL VARIAT METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AT Shelf Life: Storage Conditions:	ditions @ 75°F (24°C) and 50% RH) IONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION ND CURING CONDITIONS. 1 year in original, unopened containers Store dry at 40°- 95°F (4°- 35°C).	
Chemical Resistance	Moisture Cure Resistant to de-icing salts. 5 gal. pails, 50 gal. (net) drums. Typical Data (Material and curing con RESULTS MAY DIFFER BASED UPON STATISTICAL VARIAT METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AN Shelf Life: Storage Conditions: Product Conditioning:	ditions @ 75°F (24°C) and 50% RH) IONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION No CURING CONDITIONS. 1 year in original, unopened containers Store dry at 40°- 95°F (4°- 35°C). Condition material to 65°- 85°F (18°- 30°C) before using.	
Chemical Resistance	Moisture Cure Resistant to de-icing salts. 5 gal. pails, 50 gal. (net) drums. Typical Data (Material and curing con RESULTS MAY DIFFER BASED UPON STATISTICAL VARIAT METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AN Shelf Life: Storage Conditions: Product Conditioning: Colors:	ditions @ 75°F (24°C) and 50% RH) IONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION ND CURING CONDITIONS. 1 year in original, unopened containers Store dry at 40°- 95°F (4°- 35°C). Condition material to 65°- 85°F (18°- 30°C) before using. Medium Gray	
Chemical Resistance	Moisture Cure Resistant to de-icing salts. 5 gal. pails, 50 gal. (net) drums. Typical Data (Material and curing com RESULTS MAY DIFFER BASED UPON STATISTICAL VARIAT METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AN Shelf Life: Storage Conditions: Product Conditioning: Colors: Viscosity	ditions @ 75°F (24°C) and 50% RH) NONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION No curring conditions. 1 year in original, unopened containers Store dry at 40°- 95°F (4°- 35°C). Condition material to 65°- 85°F (18°- 30°C) before using. Medium Gray $6500 \pm 3000$ cps	
Chemical Resistance	Moisture Cure Resistant to de-icing salts. 5 gal. pails, 50 gal. (net) drums. Typical Data (Material and curing com RESULTS MAY DIFFER BASED UPON STATISTICAL VARIAT METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AN Shelf Life: Storage Conditions: Product Conditioning: Colors: Viscosity Total Volume Solids (ASTM D-2697):	ditions @ 75°F (24°C) and 50% RH) IONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION ND CURING CONDITIONS. 1 year in original, unopened containers Store dry at 40°- 95°F (4°- 35°C). Condition material to 65°- 85°F (18°- 30°C) before using. Medium Gray 6500 ± 3000 cps 71%	
Chemical Resistance	Moisture Cure Resistant to de-icing salts. 5 gal. pails, 50 gal. (net) drums. Typical Data (Material and curing com RESULTS MAY DIFFER BASED UPON STATISTICAL VARIAT METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AN Shelf Life: Storage Conditions: Product Conditioning: Colors: Viscosity	ditions @ 75°F (24°C) and 50% RH) NONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION No curring conditions. 1 year in original, unopened containers Store dry at 40°- 95°F (4°- 35°C). Condition material to 65°- 85°F (18°- 30°C) before using. Medium Gray $6500 \pm 3000$ cps	
Chemical Resistance	Moisture Cure Resistant to de-icing salts. 5 gal. pails, 50 gal. (net) drums. Typical Data (Material and curing con RESULTS MAY DIFFER BASED UPON STATISTICAL VARIAT METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AT Shelf Life: Storage Conditions: Product Conditioning: Colors: Viscosity Total Volume Solids (ASTM D-2697): VOC Content (ASTM D-2369-81):	ditions @ 75°F (24°C) and 50% RH) IONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION ND CURING CONDITIONS. 1 year in original, unopened containers Store dry at 40°- 95°F (4°- 35°C). Condition material to 65°- 85°F (18°- 30°C) before using. Medium Gray 6500 $\pm$ 3000 cps 71% 240 g/L	
Chemical Resistance	Moisture Cure Resistant to de-icing salts. 5 gal. pails, 50 gal. (net) drums. Typical Data (Material and curing com RESULTS MAY DIFFER BASED UPON STATISTICAL VARIAT METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AN Shelf Life: Storage Conditions: Product Conditioning: Colors: Viscosity Total Volume Solids (ASTM D-2697): VOC Content (ASTM D-2369-81): Tensile Strength (ASTM D-412):	ditions @ 75°F (24°C) and 50% RH) IONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION ND CURING CONDITIONS. 1 year in original, unopened containers Store dry at 40°- 95°F (4°- 35°C). Condition material to 65°- 85°F (18°- 30°C) before using. Medium Gray $6500 \pm 3000$ cps 71% 240 g/L $650 \pm 100$ psi 375 $\pm$ 50%	



How to Use Surface Preparation	Surface must be clean, dry and sound with an open texture. Remove dust, laitance, grease, curing compounds bond inhibiting impregnations, waxes, and any other contaminants. All projections, rough spots, etc., shoul be dressed off to achieve a level surface prior to the application.
	<b>Concrete</b> - Should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by shot blasting. The use of a primerless-type base coat requires that the concrete surface be sufficiently rough and open pored so that the base coat is able to penetrate the substrate surface and achieve an adequate bond. The desired surface texture (CSP 4-5 per ICRI Guidelines) is somewhat rougher than if a primer is being used. In addition, the substrate surface must be thoroughly cleaned by blowing/vacuuming to remove all particulates that may interfere with base coat bonding. The base coat will not mix and consolidate dust and particulates as will some primers, so thorough cleaning is mandatory.
	<b>Plywood</b> – Should be clean and smooth, APA and exterior grade, not less than ½" thick, and spaced and supported according to APA guidelines. Joints should be sealed with Sikaflex 2c or 1a and detailed, and may need embedded fabric reinforcement.
	Metal - Should be thoroughly cleaned by blast cleaning.
Detailing	Non-structural cracks up to 1/16 inch – Apply a detail coat of Sikalastic 710 NP Base at 32 mils wet, 4" wide centered over the crack. Allow to become tack free before overcoating.
	Cracks and joints over 1/16 up to 1 inch – Seal cracks and joints with Sika Sealant and allow to skin over and cure for 24 hours min. Apply a detail coat of Sikalastic 710 NP Base at 32 mils wet, 4" wide, centered over the crack. Allow to become tack free before overcoating.
	Joints over 1 inch – Should be treated as expansion joints and brought up through the Sikalastic Traffic System and sealed with Sika sealant.
	<b>Fabric Reinforcement –</b> An optional 3" or 6" wide Sikalastic Flexitape Heavy fabric strip may be embedded within the base coat. Flexitape width shall be chosen such that a minimum of 1" tape is embedded on eithe side of the crack/joint. Apply additional coating as required to fully embed the Flexitape in the coating.
	<b>Panelized Joints –</b> Panelized joints that are restrained across the joint and without differential movement may be sealed and the deck coating, including detail coat, applied over the joint.
	NOTE: movement within panelized joints may cause deterioration of the aggregated wear coat, in which case the joints should be treated as expansion joints and brought up through the Sikalastic Traffic System and sealed with Sika sealant.
Mixing	Thoroughly mix coating using a mechanical mixer (Jiffy) at slow speed until a homogenous mixture and uniform color is obtained (typically 1 minute). Use care not to allow the entrapment of air into the mixture.
Application	Apply at the recommended coverage rate (see Sikalastic 710/715/735 AL System Guide) using a notched squeegee or trowel, and backroll using a phenolic resin core roller. Extend base coat over entire area includ ing previously detailed cracks and joints. Allow coating to cure a minimum of 16 hours at 70°F and 50% RH or until tack fee before top coating. Allow coating to cure for a minimum of 72 hours before installing separate concrete pavement or tile wear course.
Removal	Remove liquid coating immediately with dry cloth. Once cured, coating can only be removed by mechanica means.
Limitations	<ul> <li>To avoid dew point conditions during application relative humidity must be no more than 95% and substrate temperature must be at least 5°F (3°C) above measured dew point temperature.</li> <li>Maximum moisture content for primerless applications of concrete substrate by weight when measured with a Tramex CME or CMExpert type when concrete moisture meter is &lt; 4%. Please see priming section for applications where substrate moisture is between 4% and 6% maximum.</li> <li>Minimum ambient and substrate temperature during application and curing of material is 40°F (4°C); maximum is 95°F (35°C).</li> </ul>
	<ul> <li>Do not store materials outdoors directly exposed to sunlight and moisture. Cover and protect materials with breathable type covers such as canvas tarpaulins to allow venting and protection from weather and moisture. Observe temperature storage and conditioning requirements.</li> <li>Do not thin with solvents.</li> </ul>
	<ul> <li>Minimum age of concrete must be 21-28 days, depending on curing and drying conditions.</li> <li>Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various product solutions). Surface irregularities may reflect through the cured system.</li> </ul>
	Do not apply to a porous or damp surface where moisture vapor transmission will occur during applica- tion and cure.
	<ul> <li>Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Do not proceed if rain is imminent within 8-12 hours of application. Allow sufficient time for the substrate to dry after rain or inclement weather as there is the potential for bonding problems.</li> <li>When applying over existing coatings compatibility and adhesion testing is recommended.</li> <li>Precautions should be taken to prevent odors and/or vapors from entering the building/structure, includ-</li> </ul>
	<ul> <li>ing but not limited to turning off and sealing air intake vents or other means of ingress for odors and for vapors into the building/structure during product application and cure.</li> <li>On grade, lightweight concrete, asphalt pavement, or insulated split slab applications, or applications</li> </ul>
INST SHE PAR TO F	OR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND TRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA EET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE ITMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR IT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

- evaluation and priming with a moisture-tolerant primer - contact Sika regarding recommendations.
- Waterproofing applications under overburden, including concrete pavement, and tile in a cementitious setting bed, require further technical evaluation - contact Sika regarding recommendations.
- Do not subject to continuous immersion.
- Sikalastic 710 NP is not UV stable and must be top coated or protected by a separate wearing course.
  - Mockups to verify application methods and substrate conditions as well as desired skid resistance and aesthetics are highly recommended.

Primina

Primer Selection - Determine maximum moisture content of concrete substrate by weight with a Tramex CME or CMExpert type concrete moisture meter.

Maximum moisture content for primerless applications of concrete substrate by weight when measure with a Tramex CME or CMExpert type when concrete moisture meter is:

<u>≤</u> 4%		4% <u>≤</u> 5%		5% <u>≤</u> 6%	
Interior	Exterior	Interior	Exterior	Interior	Exterior
Primerless	Primerless	1 coat Sika- lastic FTP Lo- VOC Primer or 1 coat Sikalas- tic PF Lo-VOC Primer	2 coats Sikalastic FTP Lo-VOC Primer or 2 coats Sikalastic PF Lo-VOC Primer	2 coats Sikalastic MT Primer	2 coats Sikalastic MT Primer
NOTE: See separate Primer product data sheets					

NOTE: See separate Primer product data sheets

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SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALL MAGE. SIGN 4940 CALLING 201-933-8800.

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Fracc. Industrial Balvanera

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RESPONSIBLE CARE



## Sikalastic[®] 715 Lo-VOC/715 Lo-VOC Traffic System

Single component, single product, low VOC, elastomeric, crackbridging, waterproofing traffic system

Description	The Sikalastic 715 Lo-VOC/715 Lo-VOC 7 VOC, moisture cured, elastomeric polyur brane for pedestrian and vehicular traffic b two-component products. System components are: Sikalastic FTP Primer (see separate data Sikalastic FTP Lo-VOC primer (see separat Sikalastic PF Lo-VOC primer (see separat Sikalastic MT primer (moisture-tolerant pri Sikalastic 715 Top Lo-VOC one-componer for UV exposure)	ethane coating system design earing surfaces. Booster prov sheet) ate data sheet) e data sheet) mer - see separate data shee	t)	
Where to Use	Sikalastic 715 Lo-VOC/715 Lo-VOC Traffic mentitious or plywood surfaces exposed to Multi-story parking garages Parking decks and ramps Foot bridges and walkways Mechanical rooms Stadiums and arenas Plaza and rooftop decks Balconies	ffic System is suitable for use on structurally sound concrete, ce- t to vehicular or pedestrian traffic.		
Advantages	<ul> <li>Fast turnaround with Booster</li> <li>Excellent crack-bridging properties an</li> <li>Outstanding resistance to abrasion an</li> <li>Impervious to water and deicing salts</li> <li>Range of standard colors</li> </ul>		ratures	
Coverage	Coverage rates provided are intended to a tional material may be required depending temperatures, and other site-dependent fa See Sikalastic Aliphatic Decorative Top Co	on substrate surface roughnes ctors. This will result in a lowe	s and porosity, material and substrate or coverage rate.	
Cure Mechanism	Moisture Cure			
Packaging	715 Top Lo-VOC: 4.75 gal. (net) pails, 50 g 715 Top Lo-VOC Booster: 1 quart cans (4			
	Typical Data (Material and curing cor RESULTS MAY DIFFER BASED UPON STATISTICAL VARIA METHODS, TEST METHODS, ACTUAL SITE CONDITIONS A	TIONS DEPENDING UPON MIXING METHODS		
	Shelf Life:	1 year in original, unopened	containers	
	Shelf Life: Storage Conditions:	1 year in original, unopened Store dry at 40°-95°F (4°-35°		
			°C).	
	Storage Conditions:	Store dry at 40°-95°F (4°-35	°C).	
	Storage Conditions: Product Conditioning:	Store dry at 40°-95°F (4°-35	°C). °F (18°-30°C) before using.	
	Storage Conditions: Product Conditioning: Colors: Sikalastic 715 Top Lo-VOC: Viscosity	Store dry at 40°-95°F (4°-35 Condition material to 65°-85	°C). °F (18°-30°C) before using.	
	Storage Conditions: Product Conditioning: Colors: Sikalastic 715 Top Lo-VOC:	Store dry at 40°-95°F (4°-35 Condition material to 65°-85 Gray, Charcoal an <b>715 Lo-VOC w/o Booster</b>	°C). °F (18°-30°C) before using. d Tan <b>715 Lo-VOC w/ Booster</b>	

	Tensile Strength (ASTM D-412):	3400 ± 300 psi	3400 ± 300 psi
	Elongation at Break (ASTM D-412):	450 ± 50%	450 ± 50%
	Tear Resistance (Die C, ASTM D-624):	350 ± 50 pli	350 ± 50 pli
	Hardness (ASTM D-2240):	85 ± 5 Shore A	80 ± 5 Shore A
How to Use Surface Preparation	n Surface must be clean, dry and sound with bond inhibiting impregnations, waxes, and dressed off to achieve a level surface prior	any other contaminants. All pro	
	<b>Concrete -</b> Should be cleaned and prepare by blast cleaning or equivalent mechanical		
	Route out all cracks and joints as part of su	urface preparation.	
	<b>Plywood -</b> Should be clean and smooth, A supported according to APA guidelines. Se need embedded fabric reinforcement.	<b>u</b>	
	Metal - Should be thoroughly cleaned by g	rinding or blast cleaning to nea	ar white metal (SSPC SPS-10).
Application	Priming		
	<b>Primer Selection -</b> Determine maximum m or CMExpert type concrete moisture meter		ostrate by weight with a Tramex CN
	Sikalastic FTP Primer – For concrete deck decks, apply Sikalastic FTP Primer with a gal. and work well into the substrate to er Sikalastic FTP Primer is not suitable for m information.	flat squeegee or phenolic resinusure adequate penetration an	n core roller at approximately 300 s d sealing, and puddles are avoide
	Sikalastic FTP Lo-VOC Primer - For ext of 4% by weight, interior protected concre- plywood decks, apply Sikalastic FTP Lo- approximately 300 sf/gal. and work well in puddles are avoided. For exterior exposed two applications of Sikalastic FTP Lo-VOC for metal substrates. Refer to separate print	ete decks with a maximum mo VOC Primer with a flat squee nto the substrate to ensure add concrete decks with a maximu Primer are required. Sikalastic	isture content of 5% by weight, an gee or phenolic resin core roller a equate penetration and sealing, an m moisture content of 5% by weigh c FTP Lo-VOC Primer is not suitabl
	Sikalastic PF Lo-VOC Primer - For concre- flanges and penetrations, use Sikalastic PF mum moisture content of 4% by weight, into 5% by weight, and plywood decks, apply S core roller at approximately 200 sf/gal. and sealing, and puddles are avoided. For exte 5% by weight, two applications of Sikalast sheet for additional information.	F Lo-VOC Primer. For exterior e erior protected concrete decks Sikalastic PF Lo-VOC Primer w d work well into the substrate erior exposed concrete decks	exposed concrete decks with a max with a maximum moisture content of rith a flat squeegee or phenolic resi to ensure adequate penetration an with a maximum moisture content of
	Sikalastic MT Primer - For concrete with a and penetrations, apply Sikalastic MT Prir concrete decks with a maximum moisture Primer with a flat squeegee or phenolic re well into the substrate to ensure adequate p primer data sheet for additional information	mer with a flat squeegee or ro content of 6% by weight, app esin roller at approximately 175 penetration and sealing, and pu	ller at approximately 175 sf/gal. Fo ly two applications of Sikalastic M s sf/gal per application. Work prime
	Sikalastic Recoat Primer – For existing por as an interlaminate primer, apply Sikalasti at approximately 300 sf/gal. and work will in puddles are avoided. Sikalastic Recoat Pri data sheet for additional information.	c Recoat Primer with a flat square nto the substrate to ensure add	ueegee or phenolic resin core rolle equate penetration and sealing, an
	Primer Mixing		
	Sikalastic FTP Primer – Premix Part A an mechanical mixer and Jiffy Paddle at slow s scrape the solids from the bottom and side may appear black in the container. Sikalas FTP Part A to the 1.25 gallons of Part B in until a homogenous mixture and uniform of a light olive green color. Slowly add 1.25 g additional 2 minutes until the mixture is full white in color.	speed to obtain uniform color (t es of the pail. Sikalastic FTP Pa tic FTP Part A is light amber in the short filled Part B pail. Mi color is obtained (typically 3 m gallons of potable water to the	ypically 30 seconds), making sure t art B is dark olive green in color an color. Add the 1 gallon of Sikalast x the combined material thorough inutes). This mixture will appear a mixture under agitation. Mix for a
INS SH PA TO	IOR TO EACH USE OF ANY SIKA PRODUCT, TI STRUCTIONS ON THE PRODUCT'S MOST CURF IEET WHICH ARE AVAILABLE ONLINE AT HTTP: RTMENT AT 800.933.7452 NOTHING CONTAINED READ AND FOLLOW THE WARNINGS AND INS INT PRODUCT DATA SHEET, PRODUCT LABEL A	RENT PRODUCT DATA SHEET, F ://USA.SIKA.COM/ OR BY CALLI ) IN ANY SIKA MATERIALS RELIE TRUCTIONS FOR EACH SIKA PF	PRODUCT LABEL AND SAFETY DATA NG SIKA'S TECHNICAL SERVICE DE EVES THE USER OF THE OBLIGATION RODUCT AS SET FORTH IN THE CUR
			E50

F50

**Sikalastic FTP Lo-VOC Primer** - Premix Part A (blue liquid) and Part B (yellow liquid) components separately using a low speed (400-600 rpm) mechanical mixer and Jiffy Paddle at slow speed to obtain uniform color (typically 30 seconds), making sure to scrape the solids from the bottom and sides of the pail. For the 3 gallon kit, pour Part B into Part A slowly and while mixing scrape the side of the container, For the 15 gallon kit, pour Part A into a separate mixing vessel and then pour part B into Part A. Mixing ratio is 2 parts A to 1 part B. Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.

**Sikalastic PF Lo-VOC Primer** - Premix Part A (black liquid) and Part B (white liquid) components separately using a low speed (400-600 rpm) mechanical mixer and Jiffy Paddle at slow speed to obtain uniform color (typically 30 seconds), making sure to scrape the solids from the bottom and sides of the pail. For both the 2 and 10 gallon kits, pour Part A into a separate mixing vessel and then pour part B into Part A. Mixing ratio is 1 part A to 1 part B. Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.

**Sikalastic MT Primer** - Premix Part A and Part B components separately using a low speed (400-600 rpm) mechanical mixer and Jiffy Paddle at slow speed to obtain uniform color (typically 30 seconds), making sure to scrape the solids from the bottom and sides of the pail. Pour Part B into Part A slowly and while mixing scrape the side of the container, Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.

**Sikalastic Recoat Primer –** Premix Part A and Part B components separately using a low speed (400-600 rpm) mechanical mixer and Jiffy Paddle at slow speed to obtain uniform color (typically 30 seconds), making sure to scrape the solids from the bottom and sides of the pail. Pour Part A into a separate container. Pour Part B into Part A slowly and while mixing scrape the side of the container. Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). In the event that a faster cure is required, Sikalastic Recoat Primer can be applied with Sikalastic 700 ACL as an accelerator. Add two quarts Sikalastic 700 ACL into 10 gallons of mixed primer. Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.

### **Detailing**

**Non-structural cracks up to 1/16 inch** - Apply a detail coat of Sikalastic 715 Lo-VOC Top with Sikalastic 715 Lo-VOC Booster at 26 wet mils, 4" wide, centered over the crack. Allow to become tack free before overcoating.

**Cracks and joints over 1/16 up to 1 inch** – Rout and seal with Sikaflex[®] 2c or 1a sealant and allow to cure. Apply a detail coat of Sikalastic 715 Lo-VOC Top with Sikalastic 715 Lo-VOC Booster at 26 wet mils, 4" wide, centered over the crack. Allow to become tack free before over coating.

**Joints over 1 inch -** Should be treated as expansion joints and brought up through the Sikalastic 715 Lo-VOC Top with Sikalastic 715 Lo-VOC Booster waterproofing membrane and sealed with Sikaflex[®] 2c or 1a sealant.

**Fabric Reinforcement –** An optional 3" or 6" wide Sikalastic Flexitape Heavy fabric strip may be embedded within the base coat. Flexitape width shall be chosen such that a minimum of 1" tape is embedded on either side of the crack/joint. Apply additional coating as required to fully embed the Flexitape in the coating.

**Panelized Joints** - Panelized joints that are restrained across the joint and without differential movement may be sealed and the deck coating, including detail coat, applied over the joint.

NOTE: movement within panelized joints may cause deterioration of the aggregated wear coat, in which case the joints should be treated as expansion joints and brought up through the Sikalastic Traffic System and sealed with Sikaflex[®] 2c or 1a sealant. For additional questions please contact Sika Technical Services.

### Base Coat

Thoroughly mix Sikalastic 715 Top Lo-VOC using a low speed (400-600 rpm) drill with mechanical mixer (Jiffy) at slow speed until a homogenous mixture and color is obtained. Add Sikalastic 715 Top Lo-VOC Booster into premixed coating and continue mixing until homogenous mixture and color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Apply at the recommended coverage rate (see System Guide) using a 1/4" notched squeegee or trowel and backroll using a phenolic resin core roller. Extend base coat over entire area including previously detailed cracks and control joints. Allow coating to cure a minimum of 6 hours at 70°F and 50% RH or until tack free before top coating.

### Top Coats

Thoroughly mix Sikalastic 715 Top Lo-VOC using a low speed (400-600 rpm) drill with mechanical mixer (Jiffy) at slow speed until a homogenous mixture and color is obtained. Add Sikalastic 715 Top Lo-VOC Booster (if required) into premixed coating and continue mixing until homogenous mixture and color is obtained (typically 3 minutes). Add a maximum of 1 quart to 4.75 gallons (or 1:19 ratio) and only to material that will be applied in the next hour. Use care not to allow the entrapment of air into the mixture. Apply at the recommended coverage rate (see System Guide) using a 3/16" notched squeegee or trowel, or phenolic resin core roller, and



backroll. Apply aggregate evenly distributed at the appropriate rate immediately into wet coating and backroll if required (see System Guide). Allow coating to cure a minimum of 16 hours (6 hours with Booster) 70 degrees F and 50% RH or until tack free between coats, and a minimum of 72 hours (36 hours with Booster) before opening to vehicular traffic.

### Aggregate

Use clean, rounded, oven dried quartz sand with a minimum gradation of 16-30 or 12-20 mesh for vehicular traffic and 20-40 mesh for pedestrian traffic, and a minimum hardness of 6.5 per the Moh's scale. It should be supplied in pre-packaged bags and free of metallic or other impurities. Seeding of aggregate means and even, light broadcast short of to refusal. Any loose aggregate must be removed prior to recoating. Backroll aggregate only where indicated.

### **Boosters**

Sikalastic 715 Top Lo-VOC Booster may be added to Sikalastic 715 Lo-VOC Top in order to speed cure time. The use of Sikalastic 715 Top Lo-VOC Booster is required for all Sikalastic 715 Top Lo-VOC applications exceeding 19 wet mils including use as Base Coat. Mix thoroughly prior to application. Add a maximum of 1 quart to 4.75 gallons (or 1:19 ratio) and only to material that will be applied within 45 minutes typical.

System Guide	Pedestrian Traffic	Heavy Pedestrian / Light Vehicular - Seed and Lock	Heavy Pedestrian / Light Vehicular Seed and Backroll**	Heavy Vehicular Traffic - Seed and Lock	Heavy Vehicular Traffic - Seed and Backroll	
Primer	Sikafloor FTP - 30	Sikafloor FTP - 300 sf/gal. Consult Sika for other primer options for recover and high moisture content substrates.				
715 Lo-VOC Top Detail Coat		26* mils wet over properly treated cracks and joints.				
715 Lo-VOC Top Base Coat		26* n	nils wet (23 mils dry) - 61	sf/gal.		
715 Top Lo-VOC	11 mils wet (10 mils dry) - 145 sf/gal	9 mils wet (8 mils dry) - 178 sf/gal	23* mils wet (20 mils dry) - 69 sf/gal (see NOTE)	9 mils wet (8 mils dry) - 178 sf/gal	18 mils wet (16 mils dry) - 89 sf/gal	
Aggregate	5-10 lbs/100 sf -seeded/backrolled	10-15 lbs/100 sf -seeded	15-20 lbs/100 sf - seeded/backrolled	10-15 lbs/100 sf -seeded	15-20 lbs/100 sf -seeded/backrolled	
715 Top Lo-VOC		13 mils wet (12 mils dry) - 123 sf/gal		13 mils wet (12 mils dry) - 123 sf/gal	18 mils wet (16 mils dry) - 89 sf/gal	
Aggregate				10-15 lbs/100 sf -seeded	15-20 lbs/100 sf -seeded/backrolled	
715 Top Lo-VOC				13 mils wet (12 mils dry) - 123 sf/gal		
Total Thickness	33 mils dry (excluding aggregate)	43 mils dry (excluding aggregate)	43 mils dry (excluding aggregate)	55 mils dry (excluding aggregate)	55 mils dry (excluding aggregate)	
NOTE: **Requires us	se of 715 Top Lo-VOC Boos	ter with 715 Top Lo-VOC	Top Coat, and 700 ACL	Accelerator with 736 AL L	o-VOC Top Coat	

**NOTE:** Coverage rates provided are optimal and are not guaranteed - coverage rates will vary depending on temperature, surface roughness and porosity, aggregate selection and embedment, and application technique.



### **Recoat Windows**

In the event of an unforeseen rain event or delays beyond the stated recoat window referenced in each product's current PDS, observe the following.

Product	Recoat Window	Required Surface Preparation After Recoat Window is Exceeded
Sikalastic FTP	Tack-free to 48 hours	Heavily abrade and reprime
Sikalastic FTP Lo-VOC	Tack-free to 16 hours	Heavily abrade and reprime
Sikalastic PF Lo-VOC	Tack-free to 16 hours	Heavily abrade and reprime
Sikalastic MT	Tack-free to 48 hours	Heavily abrade and reprime
Sikalastic Recoat	Tack-free to 12 hours	Heavily abrade and reprime
Sikalastic Recoat with 700 ACL Accelerator	Tack-free to 6 hours	Heavily abrade and reprime
Sikalastic 715 Top Lo-VOC	Tack-free to 48 hours	Clean and solvent wipe or Clean and Sikalastic Recoat Primer
Sikalastic 715 Top Lo-VOC with 715 Top Lo-VOC Booster	6-24 hours	Clean and solvent wipe or Clean and Sikalastic Recoat Primer

Notes:

- 1. Heavy abrasion of epoxy-based materials is intended to achieve an open, porous surface and to re move any amine blush that may interfere with bonding.
- 2. Abrasion of polyurethane-based materials is intended to achieve an open, porous surface.
- Cleaning is intended to remove dirt, debris, contaminants, and residue from mechanical surface preparation methods.
- Recommended solvents include high quality xylene and acetone. Handling and use of all solvents must be done in accordance with the manufacturer's warnings and instructions for use.

Limitationa	Te sucid dow point conditions during application relative humidity must be no more than 0.50% and sub
Maintenance/Repair	Clean with non-sudsing detergent and water and inspect regularly for mechanical damage. Snow removal equipment must have shoes, rubber tips or small skis to prevent ruptures. The use of metal blades without protection is not recommended. Damaged areas should be repaired promptly. Remove delaminated coating back to well adhered material and reinstall patch according to procedures described above. Do not use asphalt or tar modified products. Consult a Sika representative for recommendations on top coat or wearing surface restoration.
<u>Removal</u>	Remove liquid resin immediately with dry cloth. Once cured, resin can only be removed by mechanical means

- Limitations
- To avoid dew point conditions during application relative humidity must be no more than 95% and substrate temperature must be at least 5°F (3°C) above measured dew point temperature.
  - Maximum moisture content of concrete substrate by weight when measured with a Tramex CME or CMExpert type concrete moisture meter: 4% for Sikalastic FTP Primer; 4% for exterior exposed decks with one application of Sikalastic FTP Lo-VOC Primer or Sikalastic PF Lo-VOC Primer; 5% for exterior exposed decks with two applications of Sikalastic FTP Lo-VOC Primer or Sikalastic PF Lo-VOC Primer; 5% for interior protected decks with one application of Sikalastic FTP Lo-VOC Primer or Sikalastic PF Lo-VOC Primer; 5% for exterior and interior decks with one application of Sikalastic MT Primer; 6% for exterior and interior decks with two applications of Sikalastic MT Primer. (see separate Primer product data sheets).
  - Minimum ambient and substrate temperature during application and curing of material is 40°F (4°C); maximum is 95°F (35°C). Frequent monitoring of ambient and substrate temperature should always be done when applying polyurethane coatings. Note that low temperatures and low humidity will slow down the cure, and high temperatures and high humidity will accelerate it.
  - Coating materials will become more viscous at lower application temperatures and be more difficult to spread, which may affect yield.
  - Do not store materials outdoors directly exposed to sunlight and moisture. Cover and protect materials with breathable type covers such as canvas tarpaulins to allow venting and protection from weather and moisture. Observe temperature storage and conditioning requirements.
  - Do not thin with solvents.
  - Use properly graded, oven dried aggregates only.
  - Minimum age of concrete must be 21-28 days, depending on curing and drying conditions.
  - Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various product solutions). Surface irregularities may reflect through the cured system.
  - Precautions should be taken to prevent vapors and/or odors from entering the building/structure, including but not limited to turning off and sealing air intake vents and through-wall air conditioners, and other means of vapor/odor ingress during application and cure.
  - Do not apply to a porous or damp surface where moisture vapor transmission will occur during application and cure.
  - Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Do not proceed if rain is imminent within 8-12 hours of application. Allow sufficient time for the substrate to dry after

rain or inclement weather as there is the potential for bonding problems.

- When applying over existing coatings compatibility and adhesion testing is recommended.
- Opening prior to final cure may result in loss of aggregate, or permanent staining and subsequent premature failure.
  - Vehicle fluids and some high performance tires can stain the coating. Fluid spills should be removed promptly as the coating can in some cases be damaged from prolonged exposure.
  - On grade, lightweight concrete, asphalt pavement, or insulated split slab applications, or applications where chained or studded tires may be used should not be coated with Sikalastic Traffic Systems.
  - Unvented metal pan decks or decks containing a between-slab membrane require further technical evaluation and priming with a moisture-tolerant primer - contact Sika regarding recommendations.
  - Do not subject to continuous immersion.
  - Sikalastic 715 Top Lo-VOC is UV resistant, but will chalk, fade or discolor over time when exposed to UV and under certain artificial lighting conditions. Sikalastic 736AL Lo-VOC aliphatic top coat provides superior color and gloss retention.
  - Base and intermediate coats must be kept clean and re-coated within 48 hours, or 24 hours if Boosters are used.
  - Mockups to verify application methods and substrate conditions as well as desired skid resistance and aesthetics are highly recommended.

PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE-PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE

KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY.

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart-ment at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

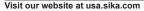
SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE RESPONSIBLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALL BAD CALLING 201-933-8800.

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Sika Canada Inc. 601 Delmar Avenue Pointe Claire Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792

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**Product Data Sheet** Edition 7.18.2016 Sikalastic® 720/745 AL Traffic System

traffic system

Sikalastic[®] 720/745 AL Traffic System

Two component, fast curing, solvent-free,

elastomeric, crack-bridging, waterproofing



## SEALANT+ WATERPROOFING & RESTORATION INSTITUTE

Issued to: Sika Corporation Product: Sikalastic 720/745 AL Traffic System ASTM D 412: Tensile Strength of Topcoat Sikalastic 745 Al Topcoat Tensile Strength: 2,912 psi; Elongation: 254% Pass 🖌 ASTM D 4541: Adhesion of Base Coat

Sikalastic 720 with Fast Track Primer Pull-off Adhesion: 531 psi

ASTM D 4060: Abrasion Resistance of Top Coat

Pass 🖌

Sikalastic 745 AL Topcoat Pass 🖌 Abrasion Resistance: 4 mgms loss - mams loss/1.000 cycles

Validation Date: 10/12/15-10/11/20

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			DECK COATING VALIDATION www.swrionline.org			
Description	Sikalastic [®] 720/745 AL Traffic System is a tw system designed for use as a waterproofin System components are:	vo-component, chemically c g membrane for pedestrian	ured, elastomeric polyurethane coating and vehicular traffic bearing surfaces			
	Sikalastic® FTP Primer (see separate data sheet).					
	Sikalastic [®] MT Primer - moisture tolerant primer (see separate data sheet). Sikalastic [®] 720 Base two-component, high solids, fast curing polyurethane base coat.					
	Sikalastic [®] 720 Base two-component, high so					
	Sikalastic [®] 735 AL, 736 AL Lo-VOC and 74 phatic Top Coats data sheet).					
Where to Use	Sikalastic [®] 720/745 AL Traffic System is suita surfaces exposed to vehicular or pedestria		ound concrete, cementitious or plywood			
	<ul> <li>Multi-story parking garages.</li> </ul>					
	<ul> <li>Parking decks and ramps.</li> <li>East bridges and walkwave</li> </ul>					
	<ul><li>Foot bridges and walkways.</li><li>Mechanical rooms.</li></ul>					
	Stadiums and arenas.					
	<ul><li>Plaza and rooftop decks.</li><li>Balconies.</li></ul>					
Advantages	<ul> <li>Low odor and fast turnaround.</li> </ul>					
-	Excellent crack-bridging properties and		eratures.			
	<ul> <li>Outstanding resistance to abrasion and</li> <li>Impervious to water and deicing salts.</li> </ul>	wear.				
	<ul> <li>Range of standard colors and decorativ</li> </ul>	e options.				
Coverage	Coverage rates provided are intended to ad tional material may be required depending o temperatures, and other site-dependent fac	n substrate surface roughne	ess and porosity, material and substrate			
Cure Mechanism	Chemical Cure.		0			
Packaging	Sikalastic [®] 720 Base: 20 gal. kit - four 5 Sikalastic [®] 745 AL:17.6 gal. kit - four 5 gal. pa					
	Typical Data (Material and curing conditions @ 75°F (24°C) and 50% RH)					
	RESULTS MAY DIFFER BASED UPON STATISTICA TEMPERATURE, APPLICATION METHODS, TEST I	L VARIATIONS DEPENDING UPOI	N MIXING METHODS AND EQUIPMENT,			
	Shelf Life:	1 year in original	, unopened containers.			
	Storage:	Store dry at 40°-	95°F (4°-35°C).			
	Product Conditioning:	Condition materia	l to 65°-85°F (18°-30°C) before using.			
	Colors:					
	Sikalastic [®] 720 Base: Gray Sikalastic [®] 745 AL: Gray, Charcoal and	Tan; custom colors availab	le.			
		720 Base	745 AL			
	Pot Life:	10-15 minutes	20-30 minutes			
	Total Volume Solids (ASTM D-2697):	95%	100%			
	VOC Content (ASTM D-2369-81):	<10 g/l	<10 g/l			
	Tensile Strength (ASTM D-412):	2500 ± 100 psi	3200 ± 300 psi			
	Elongation at Break (ASTM D-412):	800% ± 100 %	300% ± 50 %			
	Tear Resistance (Die C, ASTM D-624):	300 ± 25 pli	300 ± 30 pli			
	Hardness (ASTM D-2240):	80 ± 5 Shore A	85 ± 5 Shore A			
	IOR TO EACH USE OF ANY SIKA PRODUCT, TH					
	TRUCTIONS ON THE PRODUCT'S MOST CURF EET WHICH ARE AVAILABLE ONLINE AT HTTP:					

MENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

	Adhesion: Abrasion Resistance (ASTM D4060):	525 psi n/a	n/a 4 mg		
	Test 1000 cycles, 1000g and CS-17 wheel UV Resistance and Recovery from Elongation (ASTM C-957)	n/a	PASS		
How to Use Surface Preparation	Surface must be clean, dry and sound with an ope bond inhibiting impregnations, waxes, and any of	ther contaminants.			
	dressed off to achieve a level surface prior to ap <b>Concrete-</b> Should be cleaned and prepared to ac by blast cleaning or equivalent mechanical mean	chieve a laitance ar			
	Route out all cracks and joints as part of surface	e preparation.			
	Plywood- Should be clean and smooth, APA and exterior grade, not less than 1/2" thick, and spaced and supported according to APA guidelines. Joints should be sealed and detailed following deck priming, and main need embedded fabric reinforcement.				
	Metal- Should be thoroughly cleaned by grinding	g or blast cleaning.			
Application	Priming				
	<b>Primer Selection -</b> Determine maximum moistur or CMExpert type concrete moisture meter.	re content of concre	te substrate by weight with a Tramex CN		
	<b>Sikalastic FTP Primer</b> – For concrete decks with decks, apply Sikalastic FTP Primer with a flat so gal. and work well into the substrate to ensure a Sikalastic FTP Primer is not suitable for metal s information.	ueegee or phenolic adequate penetration	c resin core roller at approximately 300 on and sealing, and puddles are avoide		
	Sikalastic FTP Lo-VOC Primer - For exterior exposed concrete decks with a maximum moisture content of 4% by weight, interior protected concrete decks with a maximum moisture content of 5% by weight, and plywood decks, apply Sikalastic FTP Lo-VOC Primer with a flat squeegee or phenolic resin core roller a approximately 300 sf/gal. and work well into the substrate to ensure adequate penetration and sealing, and puddles are avoided. For exterior exposed concrete decks with a maximum moisture content of 5% by weight two applications of Sikalastic FTP Lo-VOC Primer are required. Sikalastic FTP Lo-VOC Primer is not suitable for metal substrates. Refer to separate primer data sheet for additional information.				
	Sikalastic PF Lo-VOC Primer - For concrete and flanges and penetrations, use Sikalastic PF Lo-V mum moisture content of 4% by weight, interior p 5% by weight, and plywood decks, apply Sikalast core roller at approximately 200 sf/gal. and word sealing, and puddles are avoided. For exterior e 5% by weight, two applications of Sikalastic PF sheet for additional information.	OC Primer. For ext protected concrete of stic PF Lo-VOC Prink k well into the subs exposed concrete d	erior exposed concrete decks with a ma decks with a maximum moisture content mer with a flat squeegee or phenolic res trate to ensure adequate penetration a ecks with a maximum moisture content		
	Sikalastic MT Primer - For concrete with a maxi and penetrations, apply Sikalastic MT Primer w concrete decks with a maximum moisture conte Primer with a flat squeegee or phenolic resin ro well into the substrate to ensure adequate penetr primer data sheet for additional information.	ith a flat squeegee ent of 6% by weigh iller at approximate	or roller at approximately 175 sf/gal. F t, apply two applications of Sikalastic M ly 175 sf/gal per application. Work prim		
	Sikalastic Recoat Primer – For existing polyure as an interlaminate primer, apply Sikalastic Rec at approximately 300 sf/gal. and work will into the puddles are avoided. Sikalastic Recoat Primer is data sheet for additional information.	coat Primer with a f	lat squeegee or phenolic resin core roll ire adequate penetration and sealing, a		
	Primer Mixing				
	Sikalastic FTP Primer – Premix Part A and Part mechanical mixer and Jiffy Paddle at slow speed scrape the solids from the bottom and sides of the may appear black in the container. Sikalastic FT FTP Part A to the 1.25 gallons of Part B in the so until a homogenous mixture and uniform color in a light olive green color. Slowly add 1.25 gallon additional 2 minutes until the mixture is fully disp white in color.	to obtain uniform c he pail. Sikalastic F P Part A is light am short filled Part B p is obtained (typical is of potable water	olor (typically 30 seconds), making sure TP Part B is dark olive green in color a ber in color. Add the 1 gallon of Sikalas ail. Mix the combined material thorough y 3 minutes). This mixture will appear to the mixture under agitation. Mix for		
	Sikalastic FTP Lo-VOC Primer - Premix Part A using a low speed (400-600 rpm) mechanical m DR TO EACH USE OF ANY SIKA PRODUCT, THE US RUCTIONS ON THE PRODUCT'S MOST CURRENT ET WHICH ARE AVAILABLE ONLINE AT HTTP://USA TMENT AT 800.933.7452 NOTHING CONTAINED IN AN READ AND FOLLOW THE WARNINGS AND INSTRUC	nixer and Jiffy Pad SER MUST ALWAYS PRODUCT DATA SH SIKA.COM/ OR BY NY SIKA MATERIALS	dle at slow speed to obtain uniform co READ AND FOLLOW THE WARNINGS AN EET, PRODUCT LABEL AND SAFETY DA CALLING SIKA'S TECHNICAL SERVICE D RELIEVES THE USER OF THE OBLIGATIO		

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(typically 30 seconds), making sure to scrape the solids from the bottom and sides of the pail. For the 3 gallon kit, pour Part B into Part A slowly and while mixing scrape the side of the container, For the 15 gallon kit, pour Part A into a separate mixing vessel and then pour part B into Part A. Mixing ratio is 2 parts A to 1 part B. Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.

**Sikalastic PF Lo-VOC Primer** - Premix Part A (black liquid) and Part B (white liquid) components separately using a low speed (400-600 rpm) mechanical mixer and Jiffy Paddle at slow speed to obtain uniform color (typically 30 seconds), making sure to scrape the solids from the bottom and sides of the pail. For both the 2 and 10 gallon kits, pour Part A into a separate mixing vessel and then pour part B into Part A. Mixing ratio is 1 part A to 1 part B. Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.

**Sikalastic MT Primer** - Premix Part A and Part B components separately using a low speed (400-600 rpm) mechanical mixer and Jiffy Paddle at slow speed to obtain uniform color (typically 30 seconds), making sure to scrape the solids from the bottom and sides of the pail. Pour Part B into Part A slowly and while mixing scrape the side of the container, Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.

**Sikalastic Recoat Primer –** Premix Part A and Part B components separately using a low speed (400-600 rpm) mechanical mixer and Jiffy Paddle at slow speed to obtain uniform color (typically 30 seconds), making sure to scrape the solids from the bottom and sides of the pail. Pour Part A into a separate container. Pour Part B into Part A slowly and while mixing scrape the side of the container. Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). In the event that a faster cure is required, Sikalastic Recoat Primer can be applied with Sikalastic 700 ACL as an accelerator. Add two quarts Sikalastic 700 ACL into 10 gallons of mixed primer. Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.

### <u>Detailing</u>

Non-structural cracks up to 1/16 inch - Apply a detail coat of Sikalastic[®] 720 Base at 23 wet mils, 4" wide, centered over the crack. Allow to become tack free before overcoating.

**Cracks and joints over 1/16 up to 1 inch** - Rout and seal with Sikaflex[®] 2c or 1a sealant and allow to cure. Apply a detail coat of Sikalastic[®] 720 Base at 23 mils, 4" wide, centered over the crack. Allow to become tack free before over coating.

Joints over 1 inch - Should be treated as expansion joints and brought up through the Sikalastic[®] 720 Base waterproofing membrane and sealed with Sikaflex[®] 2c or 1a sealant.

**Fabric Reinforcement –** An optional 3" or 6" wide Sikalastic Flexitape Heavy fabric strip may be embedded within the base coat. Flexitape width shall be chosen such that a minimum of 1" tape is embedded on either side of the crack/joint. Apply additional coating as required to fully embed the Flexitape in the coating.

**Panelized Joints** - Panelized joints that are restrained across the joint and without differential movement may be sealed and the deck coating, including detail coat, applied over the joint.

NOTE: movement within panelized joints may cause deterioration of the aggregated wear coat, in which case the joints should be treated as expansion joints and brought up through the Sikalastic Traffic System and sealed with Sikaflex[®] 2c or 1a sealant. For additional questions please contact Sika Technical Services.

### Base Coat

Premix mix Sikalastic[®] 720 Base Part A and Part B material (typically 30 seconds) using a low speed (400-600 rpm) drill with mechanical mixer (Jiffy) at slow speed to obtain uniform color making sure to scrape the solids from the bottom and sides of the pail. Pour Part B into Part A slowly and while mixing scrape the sides of the container. Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Apply at the recommended coverage rate (see System Guide) using a 3/16" notched squeegee or trowel and back roll using a phenolic resin core roller. Extend base coat over entire area including previously detailed cracks and joints. Allow coating to cure a minimum of 3-4 hours at 70°F and 50% RH or until tack free before top coating.

### Top Coats

Premix Sikalastic[®] 745 AL Part A using a using a low speed (400-600 rpm) drill with mechanical mixer (Jiffy) at slow speed to obtain uniform color, making sure to scrape the solids from the bottom and sides of the pail. Add Part B and continue mixing until a homogenous mixture and color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Apply at the recommended coverage rate (see System Guide) using a 3/16" notched squeegee or trowel, or phenolic resin core roller, and back roll. Apply aggregate evenly distributed at the appropriate rate immediately into the wet coating and back roll if required (see System Guide). Allow coating to cure a minimum of 3-4 hours at 70°F and 50% RH or until tack free between coats, and a minimum of 36 hours before opening to vehicular traffic.



### Aggregate

Use clean, rounded, oven dried, quartz sand with a minimum gradation of 16-30 or 12-20 mesh for vehicular traffic and 20-40 mesh for pedestrian traffic, and a minimum hardness of 6.5 per the Moh's scale. It should be supplied in pre-packaged bags and free of metallic or other impurities. Seeding of aggregate means and even, light broadcast short of to refusal. Any loose aggregate must be removed prior to re-coating. Back roll aggregate only where indicated.

System Guide	Pedestrian Traffic	Heavy Pedestrian /Light Vehicular	Heavy Vehicular Traffic		
Primer	Sikalastic FTP - 300 ft²/gal. Consult Sika for other primer options for recover and high moisture content substrates.				
720 Detail Coat	23 mils	wet over properly treated cracks a	nd joints.		
720 Base Coat		23 mils wet (23 mils dry) - 70 ft²/ga	al.		
745 Top Coat I	12 mils wet (12 mils dry) - 133 ft²/ gal.	18 mils wet (18 mils dry) - 90 ft²/gal.	14 mils wet (14 mils dry) - 115 ft²/gal.		
Aggregate	5-10 lbs/100 ft ² - seeded/back- rolled	10-20 lbs/100 sf - seeded/ backrolled	10-15 lbs/100 ft² seeded (backroll optional)		
745 Top Coat II			18 mils wet (18 mils dry) - 90 ft²/gal		
Aggregate			10-20 lbs/100 ft ² - seeded/backrolled		
Total Thickness	35 mils dry (excluding aggregate)	41 mils dry (excluding ag- gregate)	55 mils dry (excluding aggregate)		
See separate Sikalastic [®] Aliphatic Top Coats data sheet for DecoQuartz [®] and DecoFlake [®] systems.					
NOTE: Coverage rates provided are optimal and are not guaranteed - coverage rates will vary depending on temperature, surface roughness and porosity, aggregate selection and embedment, and application technique.					

**Recoat Windows** 

In the event of an unforeseen rain event or delays beyond the stated recoat window referenced in each product's current PDS, observe the following.

Product	Recoat Window	Required Surface Preparation After Recoat Window is Exceeded
Sikalastic FTP	Tack-free to 48 hours	Heavily abrade and reprime
Sikalastic FTP Lo-VOC	Tack-free to 16 hours	Heavily abrade and reprime
Sikalastic PF Lo-VOC	Tack-free to 16 hours	Heavily abrade and reprime
Sikalastic MT	Tack-free to 48 hours	Heavily abrade and reprime
Sikalastic Recoat	Tack-free to 12 hours	Heavily abrade and reprime
Sikalastic Recoat with 700 ACL Accelerator	Tack-free to 6 hours	Heavily abrade and reprime
Sikalastic 720	Tack-free to 24 hours	Clean and solvent wipe <u>or</u> Clean and Sikalastic Recoat Primer
Sikalastic 745 AL	Tack-free to 24 hours	Abrade, clean and solvent wipe <u>or</u> Abrade, clean and Sikalastic Recoat Primer

Notes:

- Heavy abrasion of epoxy-based materials is intended to achieve an open, porous surface and to remove any amine blush that may interfere with bonding.
- 2. Abrasion of polyurethane-based materials is intended to achieve an open, porous surface.
- 3. Cleaning is intended to remove dirt, debris, contaminants, and residue from mechanical surface preparation methods.
- 4. Recommended solvents include high quality xylene and acetone. Handling and use of all solvents must be done in accordance with the manufacturer's warnings and instructions for use.

Remove liquid resin immediately with dry cloth. Once cured, resin can only be removed by mechanical means.

Maintenance/Repair

Removal

ir Clean with non-sudsing detergent and water and inspect regularly for mechanical damage. Snow removal equipment must have shoes, rubber tips or small skis to prevent ruptures. The use of metal blades without protection is not recommended. Damaged areas should be repaired promptly. Remove delaminated coating back to well adhered material and reinstall patch according to procedures described above. Do not use asphalt or tar modified products. Consult a Sika representative for recommendations on top coat or wearing surface restoration.



#### Limitations

- To avoid dew point conditions during application relative humidity must be no more than 95% and substrate temperature must be at least 5°F (3°C) above measured dew point temperature.
- Maximum moisture content of concrete substrate by weight when measured with a Tramex CME or CMExpert type concrete moisture meter: 4% for Sikalastic FTP Primer; 4% for exterior exposed decks with one application of Sikalastic FTP Lo-VOC Primer or Sikalastic PF Lo-VOC Primer; 5% for exterior exposed decks with two applications of Sikalastic FTP Lo-VOC Primer or Sikalastic PF Lo-VOC Primer; 5% for interior protected decks with one application of Sikalastic FTP Lo-VOC Primer; 5% for exterior and interior decks with one application of Sikalastic MT Primer; 6% for exterior and interior decks with two applications of Sikalastic MT Primer. (see separate Primer product data sheets).
- Minimum ambient and substrate temperature during application and curing of material is 40°F (4°C); maximum is 95°F (35°C). Frequent monitoring of ambient and substrate temperature should always be done when applying polyurethane coatings. Note that low temperatures and low humidity will slow down the cure, and high temperatures and high humidity will accelerate it.
- Coating materials will become more viscous at lower application temperatures and be more difficult to spread, which may affect yield.
- Do not store materials outdoors directly exposed to sunlight and moisture. Cover and protect materials with breathable type covers such as canvas tarpaulins to allow venting and protection from weather and moisture. Observe temperature storage and conditioning requirements.
- Do not thin with solvents.
- Use properly graded, oven dried aggregates only.
- Minimum age of concrete must be 21-28 days, depending on curing and drying conditions.
- Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various product solutions). Surface irregularities may reflect through the cured system.
- Precautions should be taken to prevent vapors and/or odors from entering the building/structure, including but not limited to turning off and sealing air intake vents and through-wall air conditioners, and other means of vapor/odor ingress during application and cure.
- Do not apply to a porous or damp surface where moisture vapor transmission will occur during application and cure.
- Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Do not proceed if rain is emminent within 8-12 hours of application. Allow sufficient time for the substrate to dry after rain or inclement weather as there is the potential for bonding problems.
- When applying over existing coatings compatibility and adhesion testing is recommended.
- Opening prior to final cure may result in loss of aggregate, or permanent staining and subsequent premature failure.
- Vehicle fluids and some high performance tires can stain the coating. Fluid spills should be removed promptly as the coating can in some cases be damaged from prolonged exposure.
- On grade, lightweight concrete, asphalt pavement, or insulated split slab applications, or applications where chained or studded tires may be used should not be coated with Sikalastic[®] Traffic Systems.
- Unvented metal pan decks or decks containing between-slab membrane require further technical evaluation and priming with a moisture-tolerant primer - contact Sika regarding recommendations.
- Do not subject to continuous immersion. Ponding water up to 72 hours duration is not considered to be continuous immersion.
- Sikalastic[®] 720 Base coat is not UV stable and must be top coated.
- Base and intermediate coats must be kept clean and re-coated within 24 hours. If this recoat window is
  exceeded, contact Sika for recommendations.
- Mockups to verify application methods and substrate conditions as well as desired skid resistance and aesthetics are highly recommended.

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For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.

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## Sikalastic[®] 720 SG Base

Two-component, fast-curing, summer grade, solvent-free, crack-bridging, elastomeric polyurethane base coat

Description	Sikalastic [®] 720 is a two-component, aromatic, chemically cured, elastomeric polyurethane coating intended for use as the waterproofing base coat under polyurethane or epoxy wearing surfaces for pedestrian and vehicular traffic bearing applications, and as the waterproofing base coat under a separate wearing course such as concrete, and tile in a setting bed.
Where To Use	<ul> <li>Multi-story parking garages.</li> <li>Parking decks and ramps.</li> <li>Foot bridges and walkways.</li> <li>Mechanical rooms.</li> <li>Stadiums and arena.</li> <li>Plaza and rooftop decks.</li> <li>Balconies.</li> </ul>
Advantages	<ul> <li>Low odor and fast turnaround.</li> <li>Extended working time in warmer weather conditions.</li> <li>Excellent crack-bridging properties and flexibility, even at low temperatures.</li> <li>Resistant to water and de-icing salts.</li> <li>Alkaline resistant.</li> </ul>
Coverage	70 ft²/gal. @ 23 wet mils (23 dry mils).
Packaging	5 gal. kit - Part A (4 gal.) and Part B (1 gal.). Minumum order: 20 gal. kit (4 x 5 gal. kits)
Cure Mechanism	Chemical cure.
Chemical Resistance	Resistant to de-icing salts, and alkaline concrete and cementitious mortars/tile adhesives.
	Typical Data (Material and curing conditions at 75°F (24°C) and 50% R.H.)RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.Shelf Life1 year in original, unopened containers.Storage ConditionsStore dry at 40°-95°F (4°-35°C). Condition material to 65°- 85°F (18°- 30°C)

-	before using.		
Color	Medium Gray		
Pot Life		15-20 minutes	
Total Volume Solids	s (ASTM D-2697)	95%	
VOCs (ASTM D-236	9-81)	< 5 g/l	
Tensile Strength (A	STM D-412)	2100 +/- 200 psi	
Elongation at Break	(ASTM D-412)	900 +/- 100%	
Tear Resistance (Di	e C, ASTM D-624)	250 +/- 25 pli	
Hardness (ASTM D-	-2240)	70 +/- 5 Shore A	



### Surface Preparation

n Surface must be clean, dry and sound with an open texture. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes, and any other contaminants. All projections, rough spots, etc. should be dressed off to achieve a level surface prior to the application.

**Concrete** - Should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by blast cleaning or equivalent mechanical means (CSP 3-4 per ICRI guidelines).

**Plywood** - Should be clean and smooth, APA and exterior grade, not less than 1/2" thick, and spaced and supported according to APA guidelines. Joints should be sealed with Sikaflex[®] 2c or 1a and detailed and may need embedded fabric reinforcement.

Metal - Should be thoroughly cleaned by grinding or blast cleaning.

### <u>Priming</u>

Refer to separate primer data sheets for more detailed information.

**Concrete** - For concrete decks with a maximum moisture content of 4% by weight, apply Sikalastic[®] FTP with a flat squeegee or roller at approximately 300 ft²/gal. For concrete decks with a maximum moisture content of 5% by weight, apply Sikalastic[®] MT with a flat squeegee or roller at approximately 150 ft²/gal. For concrete decks with a maximum moisture content of 6% by weight, apply two applications of Sikalastic[®] MT with a flat squeegee or roller at approximately 150 ft²/gal. For concrete decks with a maximum moisture content of 6% by weight, apply two applications of Sikalastic[®] MT with a flat squeegee or roller at approximately 150 ft²/gal. For concrete decks with a maximum moisture content of 6% by weight, apply two applications of Sikalastic[®] MT with a flat squeegee or roller at approximately 150 ft²/gal. per application. Work primer well into the substrate to ensure adequate penetration and sealing, and puddles are avoided.

**Plywood** - Apply Sikalastic[®] FTP with a flat squeegee or roller at approximately 300 ft²/gal, working primer well into the substrate to ensure adequate penetration and sealing, and puddles are avoided.

Metal - Consult Sika regarding primer recommendations.

Detailing

**Non-structural cracks up to 1/16 inch -** Apply a detail coat of Sikalastic[®] 720 SG at 23 wet mils, 4" wide, centered over the crack. Allow to become tack free before overcoating.

**Cracks and joints over 1/16 up to 1 inch** - Rout and seal with Sikaflex[®] 2c or 1a sealant and allow to cure. Apply a detail coat of Sikalastic[®] 720 SG at 23 mils, 4" wide, centered over the crack. Allow to become tack free before over coating.

Joints over 1 inch - Should be treated as expansion joints and brought up through the Sikalastic[®] 720 SG waterproofing membrane and sealed with Sikaflex[®] 2c or 1a sealant.

**Fabric Reinforcement –** An optional 3" or 6" wide Sikalastic Flexitape Heavy fabric strip may be embedded within the base coat. Flexitape width shall be chosen such that a minimum of 1" tape is embedded on either side of the crack/joint. Apply additional coating as required to fully embed the Flexitape in the coating.

**Panelized Joints** - Panelized joints that are restrained across the joint and without differential movement may be sealed and the deck coating, including detail coat, applied over the joint.

NOTE: movement within panelized joints may cause deterioration of the aggregated wear coat, in which case the joints should be treated as expansion joints and brought up through the Sikalastic Traffic System and sealed with Sikaflex[®] 2c or 1a sealant. For additional questions please contact Sika Technical Services.

Premix Part A and Part B components using a mechanical mixer (Jiffy) at slow speed to obtain uniform color, making sure to scrape the solids from the bottom and sides of the pail. Pour part B into Part A slowly and while mixing scrape the side of the container, Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture.

ApplicationApply at the recommended coverage rate (see appropriate System Guide) using a notched squeegee or trowel,<br/>and backroll using a phenolic resin core roller. Extend base coat over entire area including previously detailed<br/>cracks and joints. Allow coating to cure a minimum of 3-4 hours at 70°F and 50% RH or until tack fee before<br/>top coating. Allow coating to cure for a minimum of 36 hours before installing separate wear course.

- **Removal** Remove liquid coating immediately with dry cloth. Once cured, coating can only be removed by mechanical means.
  - To avoid dew point conditions during application, relative humidity must be no more than 95% and substrate temperature must be at least 5°F (3°C) above measured dew point temperatures.
    - Maximum moisture content of substrate: 4% by weight with Sikalastic[®] FTP primer, and 6% by weight with Sikalastic[®] MT.
    - Minimum ambient and substrate temperature during application and curing of material is 40°F (4°C); maximum is 95°F (35°C). Frequent monitoring of ambient and substrate temperature should always be done when applying polyurethane coatings. Note that low temperatures and low humidity will slow down the cure, and high temperatures and high humidity will accelerate it.
    - Do not store materials outdoors directly exposed to sunlight and moisture. Cover and protect materials
      with breathable type covers such as canvas tarpaulins to allow venting and protection from weather and
      moisture. Observe temperature storage and conditioning requirements.
    - Do not thin with solvents.
    - Minimum age of concrete must be 21-28 days, depending on curing and drying conditions.
    - Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various Sika product solutions). Surface irregularities may reflect though the cured system.

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Mixing

Limitations



- Do not apply to a porous or damp surface where moisture vapor transmission will occur during application and cure.
- Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Do not proceed if rain is imminent within 8-12 hours of application. Allow sufficient time for the substrate to dry after rain or inclement weather as there is the potential for bonding problems.
- When applying over existing coatings compatibility and adhesion testing is recommended.
- On grade, lightweight concrete, asphalt pavement, and applications where chained or studded tires may be used should not be coated with Sikalastic® traffic systems.
  - Unvented metal pan decks or decks containing between-slab membranes require further technical evaluation and priming with a moisture-blocking primer - contact Sika regarding recommendations.
  - Waterproofing applications under overburden, including concrete pavement, and tile in a cementitious setting bed, require further technical evaluation - contact Sika regarding recommendations.
- Do not subject to continuous immersion.
- Sikalastic® 720 SG is not UV stable and must be top coated or protected by a separate wearing course.
- Primer and base coat must be kept clean and recoated primer within 48 hours, base coat within 24 hours. If this window is exceeded, contact Sika for recommendations.
- Mockups to verify application methods and substrate conditions as well as desired skid resistance and aesthetics are highly recommended.

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For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on SIXA warraits this product for one year from date of instantation to be needed in infandiated in generics and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beeters and beet CALLING 201-933-8800.

Visit our website at usa.sika.com

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## **Sikalastic® 390/391/395 Traffic System** Two-component, solvent-free, elastomeric, crack-bridging, waterproofing traffic system

Description	Sikalastic 390/391/395 Traffic System is a two-component, chemically cured, elastomeri polyurethane coating system designed for use as a waterproofing membrane for pedestrial and vehicular traffic bearing surfaces. System components are:					
	Sikalastic MT Primer - moisture tolerant primer (see separate Sikalastic MT Primer data sheet) Sikalastic 390 two-component, high solids, aromatic polyurethane base coat Sikalastic 391 two-component, high solids, aromatic polyurethane intermediate and interior top coar					
	Sikalastic 395 two-component, high solids, aliphatic polyurethane exterior top coat					
Where to Use	Sikalastic 390/391/395 Traffic System is suitable for use on structurally sound concrete, cementitious or plywood surfaces exposed to vehicular or pedestrian traffic.					
	Multi-story parking gara					
	Parking decks and ram					
	Foot bridges and walky	vays				
	<ul> <li>Mechanical rooms</li> <li>Stadiums and arenas</li> </ul>					
	<ul> <li>Plaza and rooftop deck</li> </ul>	s				
	Balconies					
Advantages	<ul> <li>Low odor and fast turn</li> <li>Excellent crack-bridgin</li> </ul>		s and flexibility, ev	ven at low tempera	itures	
	<ul> <li>Outstanding resistance</li> </ul>	e to abrasio	n and wear			
	Impervious to water, ic		1			
	<ul> <li>Resistant to deicing sa</li> <li>Drimer pet required in</li> </ul>		rata aubatrata an	plication condition	-	
		<ul> <li>Primer not required in typical concrete substrate application conditions</li> <li>Pange of standard colors</li> </ul>				
	Range of standard colors					
		al and curir	a conditions	75°E (24°C) and E	(10% DH)	
	RESULTS MAY DIFFER BASED I MENT, TEMPERATURE, APPLIC	UPON STATISTIC	AL VARIATIONS DEPEND		ODS AND EQUP	
	RESULTS MAY DIFFER BASED	UPON STATISTIC	AL VARIATIONS DEPEND	DING UPON MIXING METH	ODS AND EQUP	
	RESULTS MAY DIFFER BASED MENT, TEMPERATURE, APPLIC.	UPON STATISTIC ATION METHOD 1 year in o	AL VARIATIONS DEPENI S, TEST METHODS, ACTU riginal, unopened cont it 41°-95° F (5°-35°C).	DING UPON MIXING METH	ODS AND EQUP D CURING CONDITIONS.	
	RESULTS MAY DIFFER BASED MENT, TEMPERATURE, APPLIC Shelf Life	UPON STATISTIC ATION METHOD: 1 year in o Store dry a before usir Sikalastic 3 Sikalastic 3	AL VARIATIONS DEPENI s, TEST METHODS, ACTL riginal, unopened cont it 41°-95° F (5°-35°C). 19. 390 Base: Brown 391: Gray, Charcoal ar	DING UPON MIXING METH JAL SITE CONDITIONS ANI ainers	DDS AND EQUP D CURING CONDITIONS. 5°-85°F (18°-30°C) vailable	
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	RESULTS MAY DIFFER BASED MENT, TEMPERATURE, APPLIC Shelf Life Storage Conditions Colors Cure Mechanism Pot Life	UPON STATISTIC ATION METHOD: 1 year in o Store dry a before usir Sikalastic 3 Sikalastic 3 Sikalastic 3 Chemical 0	AL VARIATIONS DEPEND S, TEST METHODS, ACTU riginal, unopened conta at 41°-95° F (5°-35°C). 19. 390 Base: Brown 391: Gray, Charcoal ar 395: Gray, Charcoal ar Cure 390 15-20 minutes	DING UPON MIXING METH IAL SITE CONDITIONS ANI ainers Condition material to 69 Id Tan; custom colors av Id Tan; custom colors av 391 35-45 minutes	DDS AND EQUP D CURING CONDITIONS. 5°-85°F (18°-30°C) vailable vailable 395 35-45 minutes	
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Sikalastic 390: 5 gal. two component kit, 3.33 gal. comp. A, 1.67 gal. comp. B Sikalastic 391: 5 gal. two component kit, 3.89 gal. comp. A, 1.11 gal. comp. B Sikalastic 395: 5 gal. two component kit, 4.5 gal. comp. A, 0.5 gal. comp. B

Sikalastic materials tested in accordance with ASTM C957

Approvals

Packaging

Coverage			
System Guide	Pedestrian Traffic	Heavy Pedestrian / Light Vehicular	Heavy Vehicular Traffic
Primer	No primer re	quired for typical new and recover applic	ations. See Limitations.
390 Detail Coat		30 mils wet over properly treated cracks	and joints.
390 Base Coat	20 mils wet (20 mils dry) - 80 sf/gal.		
391/395 Top Coat I	15 mils wet (15 mils dry) - 107 sf/gal	20 mils wet (20 mils dry) - 80 sf/gal	15 mils wet (15 mils dry) - 107 sf/gal
Aggregate	5-10 lbs/100 sf -seeded/backrolled	10-15 lbs/100 sf -seeded/backrolled	10-15 lbs/100 sf -seeded (backroll optional)
391/395 Top Coat II		•	20 mils wet (20 mils dry) - 80 sf/gal
Aggregate	]		10-15 lbs/100 sf -seeded/backrolled
Total Thickness	35 mils dry (excluding aggregate)	40 mils dry (excluding aggregate)	55 mils dry (excluding aggregate)
Sikalastic 391 is not I	ong term UV resistant. Use Sikalastic 39	5 for all top coats directly exposed to UV.	

Sikalastic 391 is not long	term UV resistant. Use Sikalastic 395 for all top coats directly exposed to UV.
How To Use Surface Preparation	Surface must be clean, dry and sound with an open texture. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes, and any other contaminants. All projections rough spots, etc. should be dressed off to achieve a level surface prior to application.
	<b>Concrete</b> - Should be cleaned and prepared to achieve a laitance and contaminant free, ope textured surface by blast cleaning or equivalent mechanical means (CSP 3-4 per ICRI guidelines)
	<b>Plywood</b> - Should be clean and smooth, APA and exterior grade, not less than 1/2" thick, an spaced and supported according to APA guidelines. Seams should be sealed with Sikaflex 2c c 1a and detailed and may need embedded fabric reinforcement.
	Metal - Should be thoroughly cleaned by grinding or blast cleaning.
Application	Priming
	For concrete decks with a maximum moisture content of 4% by weight, no priming is required. For concrete decks with a maximum moisture content of 5% by weight, apply Sikalastic MT Primer wit a flat squeegee or roller at approximately 175 sf/gal. For concrete decks with a maximum moisture content of 6% by weight, apply two applications of Sikalastic MT Primer with a flat squeegee or roller at approximately 175 sf/gal. For concrete decks with a maximum moisture content of 6% by weight, apply two applications of Sikalastic MT Primer with a flat squeegee or roller at approximately 175 sf/gal. Por concrete decks with a maximum moisture content of 6% by weight, apply two applications of Sikalastic MT Primer with a flat squeegee or roller at approximately 175 sf/gal. per application. Work primer well into the substrate to ensure adequate penetration and sealing, and puddles are avoided.
	Consult Sika for primer options for wood and metal substrates.
	Detailing
	<b>Non-structural cracks up to 1/16 inch -</b> Apply a detail coat of Sikalastic 390 Base at 30 we mils, 4" wide, centered over the crack. Allow to become tack free before overcoating.
	<b>Cracks and joints over 1/16 up to 1 inch -</b> Route and seal with Sikaflex 2c or 1a sealant an allow to cure. Apply a detail coat of Sikalastic 390 Base at 30 wet mils, 4" wide, centered ove crack. Allow to skin over and become tack free before overcoating.
	Joints over 1 inch - Should be treated as expansion joints and brought up through Sikalastic 39 Base and sealed with Sikaflex 2c or 1a sealant.
	<b>Fabric Reinforcement</b> – An optional 3" or 6" wide Sikalastic Flexitape Heavy fabric strip may be embedded within the base coat. Flexitape width shall be chosen such that a minimum of 1" tap is embedded on either side of the crack/joint. Apply additional coating as required to fully ember the Flexitape in the coating.
	<b>Panelized Joints</b> - Panelized joints that are restrained across the joint and without differentia movement may be sealed and the deck coating, including detail coat, applied over the joint.
	NOTE: movement within panelized joints may cause deterioration of the aggregated wear coat, i which case the joints should be treated as expansion joints and brought up through the Sikalasti Traffic System and sealed with Sikaflex [®] 2c or 1a sealant. For additional questions please contact
Ka INST SHE PAR TO R	IR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND RUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA ET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE- IMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR- T PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

### Sika Technical Services. Base Coat

Premix mix Sikalastic 390 Base Part A and Part B components using a low speed (400-600 rpm) drill with mechanical mixer (Jiffy) at slow speed to obtain uniform color, making sure to scrape the solids from the bottom and sides of the pail. Pour Part B into Part A slowly and while mixing scrape the sides of the container. Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Apply at the recommended coverage rate (see System Guide) using a 3/16" notched squeegee or trowel and backroll using a phenolic resin core roller. Extend base coat over entire area including previously detailed cracks and joints. Allow coating to cure a minimum of 5-6 hours at 70 degrees F and 50% RH; base coat must be tack free before overcoating.

### Top Coats

Premix Sikalastic 391 or 395 Part A and Part B components using a low speed (400-600 rpm) drill with mechanical mixer (Jiffy) at slow speed to obtain uniform color, making sure to scrape the solids from the bottom and sides of the pail. Add Part B into Part A slowly and continue mixing until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Apply at the recommended coverage rate (see System Guide) using a 3/16" notched squeegee or trowel, and backroll using a phenolic resin core roller. Apply aggregate evenly distributed at the appropriate rate immediately into the wet coating and backroll if required (see System Guide). Allow coating to cure a minimum of 10 hours (Sikalastic 391) or 4 hours (Sikalastic 391) or 36 hours (Sikalastic 395) before opening to vehicular traffic.

### Aggregate

Use clean, rounded or semi-angular oven dried quartz sand with a minimum gradation of 12-20 or 16-30 mesh for vehicular traffic, and 20-40 mesh for pedestrian traffic, and a minimum hardness of 6.5 per the Moh's scale. It should be supplied in pre-packaged bags and free of metallic or other impurities. Seeding of aggregate means an even, light broadcast short of refusal. A full broadcast of aggregate means a heavy application to refusal. Any loose aggregate must be removed prior to recoating.

Backroll aggregate only where indicated.

**Removal** Remove liquid coating immediately with dry cloth. Once cured, coating can only be removed by mechanical means.

### Limitations Maintenance/Repair

Clean with non-sudsing detergent and water and inspect regularly for mechanical damage. Snow removal equipment must have shoes, rubber tips or small skis to prevent ruptures. The use of metal blades without protection is not recommended. Damaged areas should be repaired promptly. Remove delaminated coating back to well adhered material and reinstall patch according to procedures described above. Do not use asphalt or tar modified products. Consult a Sika representative for recommendations on top coat or wearing surface restoration.

### Limitations/Precautions

- To avoid dew point conditions during application relative humidity must be no more than 95% and substrate temperature must be at least 5°F (3°C) above measured dew point temperature.
- Maximum moisture content of concrete substrate by weight when measured with a Tramex CME or CMExpert type concrete moisture meter : 4% for unprimed applications; 5% with one application of Sikalastic MT primer; 6% with two applications of Sikalastic MT primer (see separate Sikalastic MT Primer product data sheet).
- Minimum ambient and substrate temperature during application and curing of material is 41°F (5°C); maximum is 95°F. Frequent monitoring of ambient and substrate temperature should always be done when applying polyurethane coatings. Note that low temperatures and low humidity will slow down the cure, and high temperatures and high humidity will accelerate it.
- Coating materials will become more viscous at lower application temperatures and be more difficult to spread, which may affect yield.
- Do not store materials outdoors exposed to sunlight for prolonged periods.
- Do not thin with solvents.



- Use properly graded, oven dried aggregates only.
- Minimum age of concrete must be 21-28 days, depending on curing and drying conditions.
  - Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various product solutions). Surface irregularities may reflect through the cured system.
  - Do not apply to a porous or damp surface where moisture vapor transmission will occur during application and cure.
  - Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Do not proceed if rain is imminent within 8-12 hours of application. Allow sufficient time for the substrate to dry after rain or inclement weather as there is the potential for bonding problems.
  - When applying over existing coatings compatibility and adhesion testing is recommended.
  - Opening prior to final cure may result in loss of aggregate, or permanent staining and subse quent premature failure.
  - Vehicle fluids and some high performance tires can stain the coating. Fluid spills should be removed promptly as the coating can in some cases be damaged from prolonged exposure.
  - On grade, lightweight concrete, asphalt pavement, or insulated split slab applications, or applications where chained or studded tires may be used should not be coated with Sikalastic Traffic Systems.
  - Unvented metal pan decks or decks containing between-slab membranes require further technical evaluation and priming with a moisture-tolerant primer - contact Sika regarding recommendations.
  - Do not subject to continuous immersion.
  - Sikalastic 390 base coat is not UV stable and must be top coated.
- Sikalastic 391 is not UV stable and must be top coated for exterior applications.
- Primer, base and intermediate coats must be kept clean and recoated within 48 hours. If this recoat window is exceeded, contact Sika for recommendations.
- Mockups to verify application methods and substrate conditions as well as desired skid resistance and aesthetics are highly recommended

RIOR TO EACH USE OF ANY SIKA PRODUCT. THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

KEEP CONTAINER TIGHTLY CLOSED, KEEP OUT OF REACH OF CHILDREN, NOT FOR INTERNAL CONSUMPTION, FOR INDUSTRIAL USE ONLY, FOR PROFESSIONAL USE ONLY.

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor ro cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR SHALL NOT BE RESPONSIBLE FOR SHALL NOT BE RESPONSIBLE FOR SHALL NOT BE RESPONSIBLE FOR SHALL NOT BE RESPONSIBLE FOR SHALL NOT BE RESPONSIBLE FOR SHALL NOT BE RESPONSIBLE FOR SHALL NOT BE RESPONSIBLE FOR SHALL NOT BE RESPONSIBLE FOR SHALL NOT BE RESPONSIBLE FOR SHALL NOT BE RESPONSIBLE FOR SHALL NOT BE RESPONSIBLE FOR SHALL NOT BE RESPONSIBLE FOR SHALL NOT BE RESPONSIBLE FOR SHALL NOT BE RESPONSIBLE FOR SHALL NOT BE RESPONSIBLE FOR SHALL NOT BE RESPONSIBLE FOR SHALL NOT BE RESPONSIBLE FOR SHALL NOT BE RESPONSIBLE FOR SHALL NOT BE RESPONSIBLE FOR SHALL NOT BE RESPONSIBLE FOR SHALL NOT BE RESPONSIBLE FOR SHALL NOT BE RESPONSIBLE FOR SHALL NOT BE RESPONSIBLE FOR SHALL NOT BE RESPONSIBLE FOR SHALL NOT BE RESPONSIBLE FOR SHALL NOT BE RESPONSIBLE FOR SHALL NOT SHALL NOT BE RESPONSIBLE FOR SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NOT SHALL NO THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. ALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.

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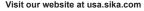
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# Sikalastic[®] 735 AL, 736 AL Lo-VOC and 748 PA Aliphatic Top Coats

High performance top coats for Sikalastic 710/715 and 720/745 Traffic Systems

Description	Sikalastic Aliphatic Top Coats are optional top coats for the Sikalastic 710/715 and 720/745 Traffic Systems. They provide superior UV resistance, color stability and cleanability as well as more decorative options. The series includes:		
	Sikalastic 735 AL one-component, moisture	e cured, aliphatic polyurethane top coat	
	Sikalastic 736 AL Lo-VOC one-component,	moisture cured, low-VOC, aliphatic polyurethane top coat	
	Sikalastic 748 PA two-component, chemica	Ily cured, low-VOC, aliphatic polyaspartic top coat	
	Sikalastic 700 ACL optional accelerator		
Where to Use		kalastic Traffic Systems, which are suitable for use on r plywood surfaces exposed to vehicular or pedestrian traffic.	
	<ul> <li>Multi-story parking garages</li> <li>Parking decks and ramps</li> <li>Foot bridges and walkways</li> <li>Mechanical rooms</li> <li>Stadiums and arenas</li> <li>Plaza and rooftop decks</li> <li>Balconies</li> </ul>		
Advantages	<ul> <li>Superior color and gloss retention and c</li> <li>Outstanding resistance to abrasion and</li> <li>Impervious to water and deicing salts</li> <li>Range of standard colors as well as cus</li> </ul>	wear	
Packaging	Sikalastic 735 AL and 736 AL Lo-VOC	5 gal. pails	
	Sikalastic 748 PA	4 gal. unit (2, 1 gal. cans Part A and 2, 1 gal. cans Part B)	
	Sikalastic 700 ACL	1 quart cans (9 cans per carton)	
Colors	Sikalastic 735 AL and 736 AL Lo-VOC Sikalastic 748 PA	Gray, Charcoal and Tan; custom colors available Clear; custom colors available	
How to Use Surface Preparation	Sikalastic Aliphatic Top Coats are designed as alternate top coats for the Sikalastic 710/715 and 720/745 Traffic Systems (see separate data sheets for substrate preparation guidelines). When applying over existing coatings surface must be clean, dry and sound. Remove dust, laitance, grease, curing compour bond inhibiting impregnations, waxes, and any other contaminants. All projections, rough spots, etc. sho be dressed off to achieve a level surface prior to application.		

### Typical Data (Material and curing conditions @ 75°F (24°C) and 50% RH)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON Mixing METHODS AND EqUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life	1 year in original, unopened containers.		
Storage	Store dry at 40-95°F (4-35°C). Condition material to 65-85°F (18-30°C) before using.		

	<u>735 AL</u>	736 AL Lo-VOC	748 PA Clear	748 PA Pigmented
Viscosity	2500 ± 700 cps	3500 ± 700 cps	200 ± 50 cps	200/300 ± 50 cps
Total Volume Solids (ASTM D-2697)	74%	83%	78%	80%
VOCs (ASTM D-2369-81)	225 g/l	99 g/l	100 g/l	95 g/l
Tensile Strength (ASTM D-412)	4200 ± 300 psi	4000 ± 300 psi	2500 ± 300 psi	2300 ± 300 psi
Elongation at Break (ASTM D-412)	230 ± 50 %	250 ± 50 %	75 ± 25 %	50 ± 20 %
Tear Resistance (Die C, ASTM D-624)	400 ± 50 pli	400 ± 50 pli	300 ± 50 pli	300 ± 50 pli
Hardness (ASTM D-2240)	90 ± 5 Shore A	90 ± 5 Shore A	50 ± 5 Shore D	50 ± 5 Shore D
Pot Life			45-60 minutes	45-60 minutes



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Application

**Sikalastic 735 AL**, **736 AL Lo-VOC** - Thoroughly mix Sikalastic 735 AL and 736 AL Lo-VOC using a mechanical mixer (Jiffy) at slow speeds until a homogenous mixture and color is obtained. Use care not to allow the entrapment of air into the mixture. Apply at the recommended coverage rate (see System Guide) and backroll using a phenolic resin core roller. Apply aggregate evenly distributed at the appropriate rate immediately into wet coating. Allow coating to cure a minimum of 16 hours at 70°F and 50% RH or until tack free between coats, and a minimum of 72 hours before opening to vehicular traffic.

**Sikalastic 748 PA** - Premix Sikalastic 748 PA Part A and Part B before combining. Add equal amounts of Part B to Part A while mixing using a mechanical mixer (Jiffy) at medium speed. Mix until a homogenous mixture and color is obtained (at least 3 minutes) and mix frequently during application to maintain uniform color. Scrape the sides of the container to ensure that no unmixed material remains and use care not to whip air into the material as this may result in pinhole blisters or shortened pot life. Pot life is 45-60 minutes at 75°F and 50% RH. Do not dilute under any circumstances. Apply at the recommended coverage rate (see System Guide) and backroll using a phenolic resin core roller. Allow 2-4 hours at 70°F and 50% RH or until tack free between coats and 24-48 hours before permitting heavy pedestrian or vehicular traffic.

**Aggregate** - Use clean, rounded oven, dried quartz sand with a minimum size gradation of 16-30 mesh for vehicular traffic and 20-40 mesh for pedestrian traffic, and a minimum hardness of 6.5 per the Moh's scale. It should be supplied in pre-packaged bags and free of metallic or other impurities. Seeding of aggregate means an even, light broadcast short of to refusal. Any loose aggregate must be removed prior to recoating. Backroll aggregate where indicated.

**Accelerator** - Sikalastic 700 ACL may be added to Sikalastic 735 AL or 736 AL Lo-VOC in order to speed cure time particularly in cold weather conditions. Mix thoroughly prior to application. Add a maximum of 1 quart to 5 gallons (or 1:20 ratio) and only to material that will applied within 2-3 hours.

System Guide -				
Product	Pedestrian Traffi	Decof lake [®]		
Primer		Sikafloor FTP - 300 sf/gal. Cons	ult Sika for other primer options	•
710 Detail Coat	32 mils wet ov	ver properly treated cracks and j	oints - see 710/715 Traffic Syste	ems data sheet
710 Base Coat	32 mil	s wet (23 mils dry) - 50 sf/gal s	ee 710/715 Traffic Systems data	a sheet
735 AL Top I	14 mils wet (10 mils dry) 115 sf/gal.	11 mils wet (8 mils dry) 145 sf/gal.	14 mils wet (10 mils dry) 115 sf/gal.	14 mils wet (10 mils dry) 115 sf/gal.
Aggregate	5-10 lbs/100 sf seeded/backrolled	10-15 lbs/100 sf - seeded	40-50 lbs/100 sf - broadcast	2-4 lbs/100 sf - seeded
735 AL Top II		16 mils wet (12 mils dry) 100 sf/gal.		
748 PA Top			13 mils wet (10 mils dry) 125 sf/gal.	9 mils wet (7 mils dry) 175 sf/gal.
Total Thickness	33 mils dry (excl. aggregate)	43 mils dry (excl. aggregate)	43 mils dry (excl. aggregate)	40 mils dry (excl. aggregate)

System Guide -				
Product	Pedestrian Traffi	Heavy Pedestrian	Decorative quartz	Decof lake [®]
Primer		Sikafloor FTP - 300 sf/gal. Cons	ult Sika for other primer options	
720 Detail Coat	23 mils wet ov	ver properly treated cracks and j	oints - see 720/745 Traffic Syste	ms data sheet
720 Base Coat	23 mil	s wet (23 mils dry) - 70 sf/gal s	ee 720/745 Traffic Systems data	a sheet
736 AL Lo-VOC I	12 mils wet (10 mils dry) 133 sf/gal.	10 mils wet (8 mils dry) 160 sf/gal.	12 mils wet (10 mils dry) 133 sf/gal.	12 mils wet (10 mils dry) 133 sf/gal.
Aggregate	5-10 lbs/100 sf seeded/backrolled	10-15 lbs/100 sf - seeded	40-50 lbs/100 sf - broadcast	2-4 lbs/100 sf - seeded
736 AL Lo-VOC II		14 mils wet (12 mils dry) 115 sf/gal.		
748 PA Top			13 mils wet (10 mils dry) 125 sf/gal.	9 mils wet (7 mils dry) 175 sf/gal.
Total Thickness	33 mils dry (excl. aggregate)	43 mils dry (excl. aggregate)	43 mils dry (excl. aggregate)	40 mils dry (excl. aggregate)



Limitations

- To avoid dew point conditions during application, relative humidity must be no more than 95% and substrate temperature must be at least 5°F (3°C) above measured dew point temperatures.
   Maximum moisture content of substrate: 4% by weight.
- Minimum ambient and substrate temperature during application and curing of material is 40°F (4°C); maximum is 90°F (32°C). Frequent monitoring of ambient and substrate temperature should always be done when applying polyurethane coatings. Note that low temperatures and low humidity will slow down the cure, and high temperatures and high humidity will accelerate it.
- Do not store materials outdoors exposed to sunlight for prolonged periods.
- Do not thin with solvents.
- Use properly graded, oven dried aggregates only.
- Minimum age of concrete must be 21-28 days, depending on curing and drying conditions.
- Any repairs required to achieve a level surface must be performed prior to application (consult a Sika
  representative for guidance on various product solutions). Surface irregularities may reflect through the
  cured system.
- Do not apply to a porous or damp surface where moisture vapor transmission will occur during application and cure.
- Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Do not
  proceed if rain is imminent within 8-12 hours of application. Allow sufficient time for the substrate to dry
  after rain or inclement weather as there is the potential for bonding problems.
- When applying over existing coatings, compatibility and adhesion testing is recommended.
- Opening prior to final cure may result in loss of aggregate, or permanent staining and subsequent premature failure.
- Vehicle fluids and some high performance tires can stain the coating. Fluid spills should be removed promptly as the coating can in some cases be damaged from prolonged exposure.
- On grade, unvented metal pan, split/sandwich slab and buried membrane conditions as well as lightweight concrete and asphalt or where chained or studded tires may be used should not be coated with Sikalastic Traffic Systems.
- Do not subject to continuous immersion.
- Mockups to verify application methods and substrate conditions as well as desired skid resistance and aesthetics are highly recommended.

Caution

### Sikalastic 735 AL

**IRRITANT.** Contains Polyurethane Prepolymer (Mixture), Solvent Naphtha Petroleum (64742-95-6), n-Butyl Acetate (CAS:123-86-4) and 3-isocyanatomethyl-3,5,5-trimethylcyclohexyl isocyanate (CAS:4098-71-9). Causes eye and skin irritation.

### Sikalastic 736 AL Lo-VOC

**IRRITANT:** Contains Quartz SiO2 (CAS: 14808-60-7), Solvent Naphtha Petroleum (64742-95-6), 4-Chloroa,a,a-trifluorotoluene (CAS:98-56-6) and n-Butyl Acetate (CAS:123-86-4). Causes eye and skin irritation. **WARNING:** This product contains a chemical known to the State of California to cause cancer.

### Sikalastic 748 PA

Part A: DANGER: FLAMMABLE, IRRITANT, SENSITIZER. Contains Hexamethylene Diisocyanate, Oligomers (CAS: 28182-81-2), 4-Chloro-a,a,a-triflourotolene (CAS: 98-56-6) and 3-Isocyanatomethylcyclohexyl Isocyanate (CAS:4098-71-9). Keep away from heat, sparks, sunlight, electrical equipment, flame or other sources of ignition. VAPORS MAY IGNITE AND EXPLODE. DO NOT SMOKE. Use only in well ventilated areas. Open doors and windows during use. Causes eye/skin/respiratory irritation. May cause skin and respiratory sensitization. Inhalation can result in headaches and dizziness. Harmful if swallowed. intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal. Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

Part B: DANGERR: FLAMMABLE, CORROSIVE, IRRITANT. Avoid direct contact. Contains Cyclohexanamine, 4,4'-methylenebis-(1-methylpropyl) (CAS: 154279-60-4) and 4-Chloro-a,a,a-triflourotoluene (CAS: 98-56-6). Keep away from heat, sparks, sunlight, electrical equipment, flame or other sources o ignition. VAPORS MAY IGNITE AND EXPLODE. DO NOT SMOKE. Use only in well ventilated areas. Open doors and windows during use. Corrosive to eyes/skin/digestive tract. Causes burns to eyes/skin/ digestive tract. Causes respiratory irritation. Inhalation can result in headaches and dizziness. Harmful if swallowed. Deliberate misuse by inhalation of vapors may be harmful or fatal. Strictly follow all usage, handling and storage instructions. Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.



Handling & Storage	Avoid direct contact with eyes and skin. Wear chemical resistant gloves/goggles/clothing. Avoid breathing vapors. Use with adequate general and local ventilation. In absence of adequate ventilation, use properly fitted NIOSH approved respirator. Wash thoroughly after handling product. Store in a cool, dry, well ventilated area. Keep containers tightly closed.
f irst Aid	<b>Eyes</b> – Hold eyelids apart and flush thoroughly with water for 15 minutes. <b>Skin</b> – Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. <b>inhalation</b> – Remove to fresh air. <b>ingestion</b> – Do not induce vomiting. Dilute with water. Contact physician. <b>in all cases contact a physician immediately if symptoms persist.</b>
Clean Up	Wear chemical resistant gloves/goggles/clothing. In absence of proper ventilation use properly fitted NIOSH respirator. Confine spill, collect using absorbent material and place in properly sealed container. Dispose of excess product in accordance with applicable local, state and federal regulations.
Maintenance/Repair	Clean with non-sudzing detergent and water and inspect regularly for mechanical damage. Snow removal equipment must have shoes, rubber tips or small skis to prevent ruptures. The use of metal blades without protection is not recommended. Damaged areas should be repaired promptly. Remove delaminated coating back to well adhered material and reinstall patch according to procedures described above. Do not use asphalt or tar modified products. Consult a Sika representative for recommendations on top coat or wearing surface restoration.

PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800-933-7452. NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTION FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

KEEP CONTAINER TIGHTLY CLOSED, KEEP OUT OF REACH OF CHILDREN, NOT FOR INTERNAL CONSUMPTION, FOR INDUSTRIAL USE ONLY, FOR PROFESSIONAL USE ONLY.

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SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCT SARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT WATTRY WARRANTY CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLING SUMA CALLI HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.

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## **Sikalastic® 22 Lo-Mod Hybrid Traffic System** Waterproofing traffic system with Sikalastic base coat and Sikadur® 22 Lo-Mod for added abrasion resistance

coat and Sikadur 22 Lo-Mod low-modulus epoxy top coat. It is designed for heavy vehicular or pedestrian		
vehicular or pedestrian traffic.         • Multi-story parking garages         • Parking decks and ramps         • Foot bridges and walkways         • Mechanical rooms         • Stadiums and arenas         • Loading docks         • Balconies         • Surfaces around turns or corners subjected to more severe traffic conditions         Advantages         • Excellent crack-bridging properties of base coat, even at low temperatures         • Maximum resistance to abrasion and wear         • Impervious to water and deicing salts         Packaging         Sikalastic 710 Base: 5 gal. pails, 50 gal. (net) drums         Sikalastic 720 Base: 20 gal. kit - 5 gal. pails, 50 gal (net) drums         Sikalastic 720 Base: 20 gal. kit - 3.33 gal. Part A, 1.67 gal. Part B         Sikalastic 710, 710 Lo-VOC, and 720 Base: Gray         Sikalastic 390 Base: Brown	Description	Sikafloor FTP primer (separate data sheet available) Sikalastic MT primer (separate data sheet available) Option 1: Sikalastic 710 Base one-component aromatic polyurethane base coat Option 2: Sikalastic 710 Lo-VOC one-component aromatic polyurethane base coat Option 3: Sikalastic 720 Base two-component, high solids, fast curing polyurethane base coat Option 4: Sikalastic 390 two-component, high solids, polyurethane base coat Sikadur 22 Lo-Mod or Sikadur 22 Lo-Mod Fast Set, low-modulus medium viscosity epoxy resin binder Optional top coats: Sikalastic 735 AL, 736 AL Lo-Voc, 745 AL, or Sikalastic 391 and 395. See separate Sikadur 22 Lo-Mod, Sikalastic 710, 710 Lo-VOC 720, 735 AL, 736 AL Lo-VOC, 745 AL, and
Maximum resistance to abrasion and wear     Impervious to water and deicing salts     Packaging     Sikalastic 710 Base: 5 gal. pails, 50 gal. (net) drums     Sikalastic 710 Lo-VOC Base: 4.75 gal. pails, 50 gal (net) drums     Sikalastic 720 Base: 20 gal. kit - four 5 gal. pails (net 4 gal. each) Part A and four 1 gal. cans Part B     Sikalastic 390: 5 gal. kit - 3.33 gal. Part A, 1.67 gal. Part B     Sikadur 22 Lo-Mod: 4 gal. unit - 2 gal. can Part A and 2 gal can Part B     Sikalastic 710, 710 Lo-VOC, and 720 Base: Gray     Sikalastic 390 Base: Brown	Where to Use	vehicular or pedestrian traffic. • Multi-story parking garages • Parking decks and ramps • Foot bridges and walkways • Mechanical rooms • Stadiums and arenas • Loading docks • Balconies
Sikalastic 710 Lo-VOC Base: 4.75 gal. pails, 50 gal (net) drums         Sikalastic 720 Base: 20 gal. kit - four 5 gal. pails (net 4 gal. each) Part A and four 1 gal. cans Part B         Sikalastic 390: 5 gal. kit - 3.33 gal. Part A, 1.67 gal. Part B         Sikadur 22 Lo-Mod: 4 gal. unit - 2 gal. can Part A and 2 gal can Part B         Sikalastic 710, 710 Lo-VOC, and 720 Base: Gray         Sikalastic 390 Base: Brown	Advantages	<ul> <li>Maximum resistance to abrasion and wear</li> </ul>
Sikalastic 390 Base: Brown	Packaging	Sikalastic 710 Lo-VOC Base: 4.75 gal. pails, 50 gal (net) drums Sikalastic 720 Base: 20 gal. kit - four 5 gal. pails (net 4 gal. each) Part A and four 1 gal. cans Part B Sikalastic 390: 5 gal. kit - 3.33 gal. Part A, 1.67 gal. Part B
	Colors	Sikalastic 390 Base: Brown

### Typical Data (Material and curing conditions @ 75°F (24°C) and 50% RH)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, AP-PLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

### Storage Conditions Store dry at 40-95°F (4-35°C). Condition material to 65-85°F (18-30°C)

before using

	Sikalastic 710 Base	Sikalastic 710 Lo- VOC Base	Sikalastic 720 Base	Sikalastic 390 Base	Sikalastic 22 LM
Shelf Life (in original unopened containers)	1 year	1 year	1 year	1 year	2 year
Viscosity / Pot Life	6500 ± 3000 cps	6500 ± 3000 cps	10-15 minutes	15-20 minutes	~2000 cps / ~30 min
Total Volume Solids (ASTM D-2697	71%	89%	100%	100%	100%
VOC Content (ASTM D-2369-81)	240 g/l	93 g/l	<10 g/l	<10 g/l	56 g/l
Tensile Strength (ASTM D-412)	800 ± 100 psi	1200 ± 300 psi	2500 ± 100 psi	1,320 psi	5700 psi (D-638)
Elongation at Break (ASTM D-412)	500 ± 50%	450 ± 50%	800 ± 100%	435%	>30% (D-638)
Tear Resistance (Die C, ASTM D-624)	170 ± 25 pli	195 ± 25 pli	300 ±25 pli	218 pli	n/a
Hardness (ASTM D-2240)	55 ± 5 Shore A	75 ± 5 Shore A	80 ± 5 Shore A	80 ± 5 Shore A	70 Shore D

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How to Use	
Surface Preparation	Surface must be clean, dry and sound with an open texture. Remove dust, laitance, grease, cur ing compounds, bond inhibiting impregnations, waxes, and any other contaminants. All projections, rough spots, etc. should be dressed off to achieve a level surface prior to application.
	<b>Concrete</b> - Should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by blast cleaning or equivalent mechanical means (CSP 3-4 per ICRI guidelines).
	Route out all cracks and joints as part of surface preparation.
	Metal - Should be thoroughly cleaned by grinding or blast cleaning.
Application	
Priming	<b>Primer Selection</b> - Determine maximum moisture content of concrete substrate by weight with a Tramex CME or CMExpert type concrete moisture meter.
	Sikalastic FTP Primer – For concrete decks with a maximum moisture content of 4% by weight, and for plywood decks, apply Sikalastic FTP Primer with a flat squeegee or phenolic resin core roller at approximately 300 sf/gal. and work well into the substrate to ensure adequate penetration and sealing, and puddles are avoided. Sikalastic FTP Primer is not suitable for metal substrates. Refer to separate primer data sheet for additional information.
	Sikalastic MT Primer - For concrete with a maximum moisture content of 5% by weight, and for metal flanges and penetrations, apply Sikalastic MT Primer with a flat squeegee or roller at approximately 175 sf/gal. For concrete decks with a maximum moisture content of 6% by weight, apply two applications of Sikalastic MT Primer with a flat squeegee or phenolic resin roller at approximately 175 sf/gal per application. Work primer well into the substrate to ensure adequate penetration and sealing, and puddles are avoided. Refer to separate primer data sheet for additional information. Primer Mixing
	Sikalastic FTP Primer – Premix Part A and Part B components separately using a low speed (400-600 rpm)
	Sikalastic FTP Finite – Fremix Fait X and Fait S components separately using a low speed (400-000 rpm) mechanical mixer and Jiffy Paddle at slow speed to obtain uniform color (typically 30 seconds), making sure to scrape the solids from the bottom and sides of the pail. Sikalastic FTP Part B is dark olive green in color and may appear black in the container. Sikalastic FTP Part A is light amber in color. Add the 1 gallon of Sikalastic FTP Part A to the 1.25 gallons of Part B in the short filled Part B pail. Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). This mixture will appear as a light olive green color. Slowly add 1.25 gallons of potable water to the mixture under agitation. Mix for an additional 2 minutes until the mixture is fully dispersed. Fully dispersed material will appear as light yellow to white in color.
	Sikalastic MT Primer - Premix Part A and Part B components separately using a low speed (400-600 rpm) mechanical mixer and Jiffy Paddle at slow speed to obtain uniform color (typically 30 seconds), making sure to scrape the solids from the bottom and sides of the pail. Pour Part B into Part A slowly and while mixing scrape the side of the container, Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.
Detailing	Non-structural cracks up to 1/16 inch – Apply a detail coat of Sikalastic 710 Base at 32 mils wet, Sikalastic 710 Lo-VOC Base at 26 mils wet, Sikalastic 720 Base at 23 mils wet, or Sikalastic 390 Base at 30 mils wet, 4" wide, centered over the crack. Allow to become tack free before overcoating.
	Cracks and joints over 1/16 up to 1 inch - Rout and seal with Sikaflex [®] 2c or 1a sealant and allow to cure. Apply a detail coat of Sikalastic 710 Base at 32 mils wet, Sikalastic 710 Lo-VOC Base at 26 mils wet, Sikalas- tic 720 Base at 23 mils wet, or Sikalastic 390 Base at 30 mils wet, 4" wide, centered over the crack. Allow to become tack free before overcoating.
	Joints over 1 inch – Should be treated as expansion joints and brought up through the Sikalastic 710 Base, Sikalastic 710 Lo-VOC Base, Sikalastic 720 Base, or Sikalastic 390 Base waterproofing membrane and sealed with Sikaflex [®] 2c or 1a sealant.
	<b>Fabric Reinforcement –</b> An optional 3" or 6" wide Sikalastic Flexitape Heavy fabric strip may be embedded within the base coat. Flexitape width shall be chosen such that a minimum of 1" tape is embedded on either side of the crack/joint. Apply additional coating as required to fully embed the Flexitape in the coating.
	<b>Panelized Joints –</b> Panelized joints that are restrained across the joint and without differential movement may be sealed and the deck coating, including detail coat, applied over the joint.
	NOTE: movement within panelized joints may cause deterioration of the aggregated wear coat, in which case the joints should be treated as expansion joints and brought up through the Sikalastic Traffic System and sealed with Sikaflex [®] 2c or 1a sealant. For additional questions please contact Sika Technical Services.
Base Coats	<b>Sikalastic 710 Base –</b> Thoroughly mix (typically 30 seconds) using a low speed (400-600 rpm) drill with me- chanical mixer (Jiffy) at slow speed until a homogenous mixture and color is obtained. Use care not to allow the entrapment of air into the mixture. Apply at the recommended coverage rate (see System Guide) using a 3/16" notched squeegee or trowel and backroll using a phenolic resin core roller. Extend base coat over entire area including previously detailed cracks and control joints. Allow coating to cure a minimum of 16 hours at 70°F and 50% RH; base coat must be tack free before over coating.
ka®	PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE- PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR- RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

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Sikalastic 710 Lo-VOC Base - Thoroughly mix Sikalastic 710 Base Lo-VOC using a low speed (400-600 rpm drill with mechanical mixer (Jiffy) at slow speed until a homogenous mixture and color is obtained. Add Sikalastic 710 Base Lo-VOC Booster (if required) into premixed coating and continue mixing until homogenous mixture and color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Apply at the recommended coverage rate (see System Guide) using a ¼" notched squeegee or trowel and backroll using a phenolic resin core roller. Extend base coat over entire area including previously detailed cracks and control joints. Allow coating to cure a minimum of 16 hours (6 hours with Booster) at 70°F and 50% RH or until tack free before top coating. Sikalastic 720 Base - Premix Part A and Part B material (typically 30 seconds) using a low speed (400-600 rpm) drill with mechanical mixer (Jiffy) at slow speed to obtain uniform color. Making sure to scrape the solids from the bottom and sides of the pail. Pour Part B into Part A slowly and while mixing scrape the sides of the container. Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Apply at the recommended coverage rate (see System Guide) using a 3/16" notched squeegee or trowel and backroll using a phenolic resin core roller. Extend base coat over entire area including previously detailed cracks and joints. Allow coating to cure a minimum of 3-4 hours at 70°F and 50% RH; base coat must be tack free before over coating. It is important to overcoat within 24 hours. Contact Sika if this window is exceeded. Sikalastic 390 - Premix Part A and Part B material (typically 30 seconds) using a low speed (400-600 rpm) drill with mechanical mixer (Jiffy) at slow speed to obtain uniform color, making sure to scrape the solids from the bottom and sides of the pail. Pour Part B into Part A slowly and while mixing scrape the sides of the container. Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Apply at the recommended coverage rate (see System Guide) using a 3/16" notched squeegee or trowel and backroll using a phenolic resin core roller. Extend base coat over entire area including previously detailed cracks and joints. Allow coating to cure a minimum of 5-6 hours at 70°F and 50% RH; base coat must be tack free before over coating. It is important to overcoat within 48 hours. Contact Sika if this window is exceeded. Binder Coats Premix Sikadur 22 Lo-Mod Part A and Part B and proportion equal parts by volume into a clean mixing container. Mix with a low-speed (400-600 rpm) mechanical mixer (Jiffy), scraping the sides of the container while mixing, and using care not to allow the entrapment of air into the mixture. Mix the combined materials thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). Apply at the recommended coverage rate (see System Guide) using a notched 3/16" squeegee and backroll using a phenolic resin core roller. Apply aggregate evenly distributed at the appropriate rate immediately into wet coating. For full broadcast applications, slowly broadcast so the aggregate falls vertically into the binder making several passes, allow the binder to bleed through the sand before making the next pass. Cover completely before binder becomes tack free. Allow coating to cure a minimum of 8 hours at 70 degrees F and 50% RH or until tack free between coats. Remove all loose aggregate before top coating or opening to traffic. If no top coat is to be applied, allow coating to cure a minimum of 24 hours (720 Base, 710 Lo-VOC w/Booster), 36 hours (390), or 48 hours (710 Base, 710 Lo-VOC) before opening to vehicular traffic. For seed and backroll applications, apply aggregate distributed at the appropriate rate immediately into wet coating and backroll. Allow coating to cure a minimum of 8 hours or until tack free before top coating. Use clean, rounded, oven dried quartz sand with a minimum size gradation of 16-30 mesh for vehicular traffic Aggregate and 20-40 mesh for pedestrian traffic, and a minimum hardness of 6.5 per the Moh's scale. It should be supplied in pre-packaged bags and free of metallic or other impurities. Seeding of aggregate means an even, light broadcast short of refusal, at an application rate of 10-20 lbs. per 100 square feet, and requires backrolling. A full broadcast of aggregate means a heavy application to refusal; slowly broadcast so the aggregate falls vertically into the binder making several passes, allowing the binder to bleed through the sand before making the next pass; cover completely at a total rate of 1.25 to 1.5 lbs. per square foot before binder becomes tack free; after tack free remove all loose aggregate prior to top coating or opening to traffic. **Top Coats** Sikalastic 735 AL, 736 AL Lo-VOC - Thoroughly mix (typically 30 seconds) using a low speed (400-600 rpm) drill with mechanical mixer (Jiffy) at slow speed until a homogenous mixture and color is obtained. Use care not to allow the entrapment of air into the mixture. Apply at the recommended overage rate (see System Guide) and backroll using a phenolic resin core roller. Allow coating to cure a minimum of 16 hours at 70°F and 50% RH or until tack free between coats, and a minimum of 72 hours before opening to vehicular traffic. Sikalastic 745 AL - Premix Sikalastic 745 AL Part A with a low speed (400-600 rpm) drill with mechanical mixer (Jiffy) at slow speed to obtain uniform color, making sure to scrape the solids from the bottom and sides of the pail. Add Part B and continue mixing until a homogenous mixture and color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Apply at the recommended coverage rate (see System Guide) and backroll using a phenolic resin core roller. Allow coating to cure a minimum of 4 hours at 70°F and 50% RH or until tack free between coats, and a minimum of 36 hours before opening to vehicular traffic Sikalastic 391, 395 - Premix Sikalastic 391 or 395 Part A and Part B components using a low speed (400-600 rpm) drill with mechanical mixer (Jiffy) at slow speed to obtain uniform color, making sure to scrape the solids from the bottom and sides of the pail. Add Part B into Part A slowly and continue mixing until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION

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the mixture. Apply at the recommended coverage rate (see System Guide) using a 3/16" notched squeegee or trowel, and backroll using a phenolic resin core roller. Allow coating to cure a minimum of 48 hours (391) or 36 hours (395) before opening to vehicular traffic.

## System Guides Sikalastic 710/22 Lo-Mod Traffic System – Single Component

System Guide	Standard Vehicular Traffic - Full Broadcast	Heavy Vehicular Traffic - Full Broadcast	Extra Heavy Vehicular Traffic - Full Broadcast	
Primer	Sikalastic FTP - 300 sf/gal. Consult Sika for other primer options for recover and high moisture content substrates.			
710 Detail Coat	32 mils	wet over properly treated cracks and	d joints.	
710 Base Coat		32 mils wet (23 mils dry) - 50 sf/gal.		
22 Lo-Mod Binder I	20 mils wet (20 mils dry) - 70 sf/gal	32 mils wet (32 mils dry) - 50 sf/gal	32 mils wet (32 mils dry) - 50 sf/gal	
Aggregate I	1.25 lbs/sf broadcasted to refusal	1.5 lbs/sf broadcasted to refusal	1.5 lbs/sf broadcasted to refusal	
22 Lo-Mod Binder II			32 mils wet (32 mils dry) - 50 sf/gal	
Aggregate II			1.5 lbs/sf broadcasted to refusal	
715/735 AL Top Coat*	23 mils wet (18 mils dry) - 70 sf/ gal	23 mils wet (18 mils dry) - 70 sf/ gal	23 mils wet (18 mils dry) - 70 sf/ gal	
Total Thickness	61 mils dry (excluding aggregate)	73 mils dry (excluding aggregate)	105 mils dry (excluding ag- gregate)	
NOTE:* Top Coat is optional for all full broadcast systems.				

NOTE: Coverage rates provided are optimal and are not guaranteed - coverage rates will vary depending on temperature, surface roughness and porosity, aggregate selection and embedment, and application technique.

System Guide	Heavy Vehicular Traffic - Seed & Backroll	Extra Heavy Vehicular Traffic - Seed & Backroll	
Primer	Sikalastic FTP - 300 sf/gal. Consult Sika for other primer options for recover and high mois- ture content substrates.		
710 Detail Coat	32 mils wet over properly	treated cracks and joints.	
710 Base Coat	32 mils wet (23 mils dry) - 50 sf/gal.		
22 Lo-Mod Binder I	16 mils wet (16 mils dry) - 100 sf/gal	16 mils wet (16 mils dry) - 100 sf/gal	
Aggregate I	10-20 lbs/100 sf seeded & backrolled	10-20 lbs/100 sf seeded & backrolled	
22 Lo-Mod Binder II		16 mils wet (16 mils dry) - 100 sf/gal	
Aggregate II		10-20 lbs/100 sf seeded & backrolled	
715/735 AL Top Coat	16 mils wet (12 mils dry) - 100 sf/gal	16 mils wet (12 mils dry) - 100 sf/gal	
Total Thickness	51 mils dry (excluding aggregate) 67 mils dry (excluding aggregate)		
NOTE: Coverage rates provided are optimal and are not guaranteed - coverage rates will vary depending on temperature, surface roughness			

NOTE: Coverage rates provided are optimal and are not guaranteed - coverage rates will vary depending on temperature, surface roughness and porosity, aggregate selection and embedment, and application technique.



## System Guides Sikalastic 710 Lo-VOC/22 Lo-Mod Traffic System – Single Component

System Guide	Standard Vehicular Traffic - Full Broadcast	Heavy Vehicular Traffic - Full Broadcast	Extra Heavy Vehicular Traffic - Full Broadcast	
Primer	Sikalastic FTP Lo-VOC - 300 sf/g	al. Consult Sika for other primer opti content substrates.	ons for recover and high moisture	
710 Base Lo-VOC Detail Coat	26 mils	wet over properly treated cracks an	d joints.	
710 Base Lo-VOC Base Coat		26 mils wet (23 mils dry) - 61 sf/gal.		
22 Lo-Mod Binder I	20 mils wet (20 mils dry) - 70 sf/gal	32 mils wet (32 mils dry) - 50 sf/gal	32 mils wet (32 mils dry) - 50 sf/gal	
Aggregate I	1.25 lbs/sf broadcasted to refusal	1.5 lbs/sf broadcasted to refusal	1.5 lbs/sf broadcasted to refusal	
22 Lo-Mod Binder II			32 mils wet (32 mils dry) - 50 sf/gal	
Aggregate II			1.5 lbs/sf broadcasted to refusal	
715 Top Lo-VOC /736 AL Lo-VOC Top Coat I*	21/23 mils wet (18 mils dry) - 76/70 sf/gal	21/23 mils wet (18 mils dry) - 76/70 sf/gal	21/23 mils wet (18 mils dry) - 76/70 sf/gal	
Total Thickness	61 mils dry (excluding aggregate)	73 mils dry (excluding aggregate)	105 mils dry (excluding ag- gregate)	
NOTE: *Top coat is optional for all full broadcast systems				
NOTE Coverage rates provided are estimal and are not supracticed, severage rates will vary depending on temperature				

NOTE: Coverage rates provided are optimal and are not guaranteed - coverage rates will vary depending on temperature, surface roughness and porosity, aggregate selection and embedment, and application technique.

System Guide	Heavy Vehicular Traffic - Seed & Backroll	Extra Heavy Vehicular Traffic - Seed & Backroll
Primer	Sikalastic FTP Lo-VOC - 300 sf/gal. Consult Sik moisture conte	a for other primer options for recover and high ent substrates.
710 Base Lo-VOC Detail Coat	26 mils wet over properly	treated cracks and joints.
710 Base Lo-VOC Base Coat	26 mils wet (23 m	ils dry) - 61 sf/gal.
22 Lo-Mod Binder I	16 mils wet (16 mils dry) - 100 sf/gal	16 mils wet (16 mils dry) - 100 sf/gal
Aggregate I	10-20 lbs/100 sf seeded & backrolled	10-20 lbs/100 sf seeded & backrolled
22 Lo-Mod Binder II		16 mils wet (16 mils dry) - 100 sf/gal
Aggregate II		10-20 lbs/100 sf seeded & backrolled
715 Top Lo-VOC /736 AL Lo-VOC Top Coat I	13/14 mils wet (12 mils dry) - 123/114 sf/gal	13/14 mils wet (12 mils dry) - 123/114 sf/gal
Total Thickness	51 mils dry (excluding aggregate)	67 mils dry (excluding aggregate)
NOTE: Coverage rates provided are optim:	al and are not guaranteed - coverage rates y	will yary depending on temperature

NOTE: Coverage rates provided are optimal and are not guaranteed - coverage rates will vary depending on temperature, surface roughness and porosity, aggregate selection and embedment, and application technique.



## System Guides Sikalastic 720/22 Lo-Mod Traffic System – Two Component

System Guide	Standard Vehicular Traffic - Full Broadcast	Heavy Vehicular Traffic - Full Broadcast	Extra Heavy Vehicular Traffic - Full Broadcast
Primer	Sikalastic FTP - 300 sf/gal. Consu	Ilt Sika for other primer options for r substrates.	ecover and high moisture content
720 Detail Coat	23 mils	wet over properly treated cracks and	d joints.
720 Base Coat		23 mils wet (23 mils dry) - 70 sf/gal.	
22 Lo-Mod Binder I	20 mils wet (20 mils dry) - 70 sf/gal	32 mils wet (32 mils dry) - 50 sf/gal	32 mils wet (32 mils dry) - 50 sf/gal
Aggregate I	1.25 lbs/sf broadcasted to refusal	1.5 lbs/sf broadcasted to refusal	1.5 lbs/sf broadcasted to refusal
22 Lo-Mod Binder II			32 mils wet (32 mils dry) - 50 sf/gal
Aggregate II			1.5 lbs/sf broadcasted to refusal
745 AL Top Coat*	18 mils wet (18 mils dry) - 89 sf/ gal	18 mils wet (18 mils dry) - 89 sf/ gal	18 mils wet (18 mils dry) - 89 sf/ gal
Total Thickness	61 mils dry (excluding aggregate)	73 mils dry (excluding aggregate)	105 mils dry (excluding ag- gregate)
NOTE: *Top coat is optional for all	full broadcast systems		
	are optimal and are not guarant /, aggregate selection and embe		

Heavy Vehicular Traffic - Seed & Extra Heavy Vehicular Traffic -System Guide Backroll Seed & Backroll Sikalastic FTP - 300 sf/gal. Consult Sika for other primer options for recover and high mois-Primer ture content substrates. 720 Detail Coat 23 mils wet over properly treated cracks and joints. 720 Base Coat 23 mils wet (23 mils dry) - 70 sf/gal. 22 Lo-Mod Binder I 16 mils wet (16 mils dry) - 100 sf/gal 16 mils wet (16 mils dry) - 100 sf/gal 10-20 lbs/100 sf seeded & backrolled Aggregate I 10-20 lbs/100 sf seeded & backrolled 16 mils wet (16 mils dry) - 100 sf/gal 22 Lo-Mod Binder II Aggregate II 10-20 lbs/100 sf seeded & backrolled 745 AL Top Coat 12 mils wet (12 mils dry) - 133 sf/gal 12 mils wet (12 mils dry) - 133 sf/gal Total Thickness 51 mils dry (excluding aggregate) 67 mils dry (excluding aggregate)

NOTE: Coverage rates provided are optimal and are not guaranteed - coverage rates will vary depending on temperature, surface roughness and porosity, aggregate selection and embedment, and application technique.



### System Guides Sikalastic 390/22 Lo-Mod Traffic System – Two Component

System Guide	Standard Vehicular TrafficExtra Heavy Vehicular- Full BroadcastFull BroadcastTraffic - Full Broadcast					
Primer	Sikalastic FTP - 300 sf/gal. Consu	Ilt Sika for other primer options for r substrates.	ecover and high moisture content			
390 Detail Coat	30 mils	wet over properly treated cracks an	d joints.			
390 Base Coat		20 mils wet (20 mils dry) - 80 sf/gal	•			
22 Lo-Mod Binder I	20 mils wet (20 mils dry) - 70 sf/gal	32 mils wet (32 mils dry) - 50 sf/gal	32 mils wet (32 mils dry) - 50 sf/gal			
Aggregate I	1.25 lbs/sf broadcasted to refusal	1.5 lbs/sf broadcasted to refusal	1.5 lbs/sf broadcasted to refusal			
22 Lo-Mod Binder II			32 mils wet (32 mils dry) - 50 sf/gal			
Aggregate II			1.5 lbs/sf broadcasted to refusal			
395 AL Top Coat*	18 mils wet (18 mils dry) - 89 sf/ gal	18 mils wet (18 mils dry) - 89 sf/ gal	18 mils wet (18 mils dry) - 89 sf/ gal			
Total Thickness	58 mils dry (excluding aggregate)	70 mils dry (excluding aggregate)	102 mils dry (excluding ag- gregate)			
NOTE: *Top coat is optional for all	full broadcast systems					
NOTE: Coverage rates provided	are optimal and are not guarant	teed - coverage rates will vary de	pending on temperature,			

surface roughness and porosity, aggregate selection and embedment, and application technique.

System Guide	Heavy Vehicular Traffic - Seed &Extra Heavy Vehicular Traffic -BackrollSeed & Backroll		
Primer	Sikalastic FTP - 300 sf/gal. Consult Sika for of ture content	ther primer options for recover and high mois- t substrates.	
390 Detail Coat	30 mils wet over properly	treated cracks and joints.	
390 Base Coat	20 mils wet (20 m	ils dry) - 80 sf/gal.	
22 Lo-Mod Binder I	16 mils wet (16 mils dry) - 100 sf/gal	16 mils wet (16 mils dry) - 100 sf/gal	
Aggregate I	10-20 lbs/100 sf seeded & backrolled	10-20 lbs/100 sf seeded & backrolled	
22 Lo-Mod Binder II		16 mils wet (16 mils dry) - 100 sf/gal	
Aggregate II		10-20 lbs/100 sf seeded & backrolled	
395 AL Top Coat	12 mils wet (12 mils dry) - 133 sf/gal	12 mils wet (12 mils dry) - 133 sf/gal	
Total Thickness	48 mils dry (excluding aggregate)	64 mils dry (excluding aggregate)	
NOTE: Coverage rates provided are optimal and	t are not quaranteed - coverage rates will vary de	ponding on tomporature, surface roughness	

NOTE: Coverage rates provided are optimal and are not guaranteed - coverage rates will vary depending on temperature, surface roughness and porosity, aggregate selection and embedment, and application technique.



Construction

### **Recoat Windows**

In the event of an unforeseen rain event or delays beyond the stated recoat window referenced in each product's current PDS, observe the following.

Product	Recoat Window	Required Surface Preparation After Recoat Window is Exceeded
Sikalastic FTP	Tack-free to 48 hrs.	Heavily abrade and reprime
Sikalastic MT	Tack-free to 48 hrs.	Heavily abrade and reprime
Sikalastic 710	Tack-free to 72 hrs.	Clean and solvent wipe <u>or</u> Clean and Sikalastic Recoat Primer
Sikalastic 710 Lo-VOC	Tack-free to 48 hrs.	Clean and solvent wipe <u>or</u> Clean and Sikalastic Recoat Primer
Sikalastic 710 Lo-VOC with 710 Lo-VOC Booster	6 - 24 hrs.	Clean and solvent wipe <u>or</u> Clean and Sikalastic Recoat Primer
Sikalastic 720	Tack-free to 24 hrs.	Abrade, clean and solvent wipe <b>or</b> Abrade, clean and Sikalastic Recoat Primer
Sikalastic 390	Tack-free to 48 hrs.	Abrade, clean and solvent wipe <u>or</u> Abrade, clean and Sikalastic Recoat Primer
Sikadur 22 Lo-Mod - Seeded	Tack-free to 24 hrs.	Heavily abrade and reapply
Sikadur 22 Lo-Mod – Full Broadcast	Tack-free to 72 hrs.	Clean and power dry

Notes:

1. Heavy abrasion of epoxy-based materials is intended to achieve an open, porous surface and to remove any amine blush that may interfere with bonding.

2. Abrasion of polyurethane-based materials is intended to achieve an open, porous surface.

3. Cleaning is intended to remove dirt, debris, contaminants, and residue from mechanical surface preparation methods.

4. Recommended solvents include high quality xylene and acetone. Handling and use of all solvents must be done in accordance with the manufacturer's warnings and instructions for use.

Remove liquid resin immediately with dry cloth. Once cured, resin can only be removed by mechanical means. Clean with non-sudsing detergent and water and inspect regularly for mechanical damage. Snow removal equipment must have shoes, rubber tips or small skis to prevent ruptures. The use of metal blades without protection is not recommended. Damaged areas should be repaired promptly. Remove delaminated coating back to well adhered material and reinstall patch according to procedures described above. Do not use asphalt or tar modified products. Consult a Sika representative for recommendations on top coat or wearing

Limitations /Precautions

Removal

/Repair

Maintenance

- To avoid dew point conditions during application relative humidity must be no more than 95% and substrate temperature must be at least 5 F (3 C) above measured dew point temperature.
  - Maximum moisture content of concrete substrate by weight when measured with a Tramex CME or CMExpert type concrete moisture meter : 4% for Sikafloor FTP Primer applications; 5% with one application of Sikalastic MT Primer; 6% with two applications of Sikalastic MT Primer (see separate Sikalastic MT Primer product data sheet).
  - Minimum ambient and substrate temperature during application and curing of material is 40°F (4°C); maximum is 95 F (35°C). Frequent monitoring of ambient and substrate temperature should always be done when applying polyurethane coatings. Note that low temperatures and low humidity will slow down the cure, and high temperatures and high humidity will accelerate it.
  - Coating materials will become more viscous at lower application temperatures and be more difficult to spread, which may affect coverage rates.
  - Do not store materials outdoors directly exposed to sunlight and moisture. Cover and protect materials
    with breathable type covers such as canvas tarpaulins to allow venting and protection from weather and
    moisture. Observe temperature storage and conditioning requirements.
  - Do not thin with solvents.

surface restoration.

- Use properly graded, oven dried aggregates only.
- Minimum age of concrete must be 21-28 days, depending on curing and drying conditions.
- Any repairs required to achieve a level surface must be performed prior to application (consult a Sika
  representative for guidance on various product solutions). Surface irregularities may reflect through the
  cured system.
- Precautions should be taken to prevent odors and/or vapors from entering the building/structure, including but not limited to turning off and sealing air intake vents or other means of ingress for odors and/or vapors into the building/structure during product application and cure.



- Do not apply to a porous or damp surface where moisture vapor transmission will occur during application and cure.
- Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Do not
  proceed if rain is imminent within 8-12 hours of application. Allow sufficient time for the substrate to dry
  after rain or inclement weather as there is the potential for bonding problems.
- When applying over existing coatings compatibility and adhesion testing is recommended.
- Opening prior to final cure may result in loss of aggregate, or permanent staining and subsequent premature failure.
- Vehicle fluids and some high performance tires can stain the coating. Fluid spills should be removed promptly as the coating can in some cases be damaged from prolonged exposure.
- On grade, lightweight concrete, asphalt pavement, or insulated split slab applications, or applications where chained or studded tires may be used should not be coated with Sikalastic Traffic Systems.
- Unvented metal pan decks or decks containing between-slab membrane require further technical evaluation to determine substrate moisture content and priming with a moisture-tolerant primer contact Sika regarding recommendations.
- Do not subject to continuous immersion.
- Sikalastic 710, 710 Lo-VOC, 720, and Sikalastic 390 Base coats are not UV stable and must be top coated.
- Base coats must be kept clean and recoated within 48 hours (710 Base, 710 Lo-VOC Base, 390 Base) or 24 hours (720 Base). If this recoat window is exceeded, contact Sika for recommendations.
- Sikadur 22 Lo-Mod may exhibit cracking due to excessive substrate movement and will chalk, fade, or discolor over time when exposed to UV and under certain artificial lighting conditions. Aliphatic top coats with superior color and gloss retention are available.
- Mockups to verify application methods and substrate conditions as well as desired skid resistance and aesthetics are highly recommended.

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## Sikalastic[®] FTP Primer Two-component, low odor, fast curing water-based primer

Description	Sikalastic [®] FTP primer is a two-component, waterborne epoxy diluted with water in the field.
Where to Use	Use with Sikalastic [®] Traffic Systems as a primer on concrete, cementitious or plywood surfaces exposed to vehicular or pedestrian traffic. Refer to the Sikalastic [®] 710/715/735 AL Traffic System and Sikalastic [®] 720/745 Traffic System Product Data Sheets for system application instructions as well as limitations.
Advantages	Low VOC
	■ Fast dry time
	■ Low odor
	Moisture tolerant
Packaging	Sikalastic [®] FTP primer is packaged in pre-proportioned kits, both diluted with water in the field. 7gal. kit - two 1 gal. cans Part A and two short-filled pails Part B (1.25 gal. each). Kit yields 7 gal. after dilution with 2.5 gal. water (see mixing instructions). 1 gal. kit - short filled can of Part A (0.28 gal.) and a short filled gallon can Part B (0.35 gal.). The kit will yield one gallon of mixed product after dilution with 0.35 gal. water. (see mixing instructions).
Coverage	Approximately 300 ft. ² /gal. Porous and rough substrates will increase consumption.
Chemical resistance	No Chemical Resistance Guide for this product, requires over coating with a Sika water- proofing system.
Cure Mechanism	See application info.

### Typical Data Material and curing conditions at 75° F (24°C) and 50 % RH

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life:	2 years in original unopened container under proper storage conditions.
Storage:	Store dry between 40°-90°F (4°-32°C). Condition material to 65°-85°F (18°-30°C) before using.
Pot Life:	Approx. 1 hour @ 77°F (25°C) and 50% relative humidity
VOC (ASTM D2369):	< 5 g/L
Flash Point:	>200°F (93.3°C)
Recoat time:	Up to 48 hrs. @ 77°F (25°C)
Cure time:	3-4 hrs. @ 77°F (25°C) and 50% relative humidity

### **TYPICAL PHYSICAL PROPERTIES:**

Bond Strength (ACI 503R, Appendix A): >400 psi (100% concrete failure)



How to Use Surface Preparation	Concrete surface must be clean, sound and dry. Remove dust, laitance, grease, cur- ing compounds, bond inhibiting impregnations, waxes and any other contaminants. All projections, rough spots, etc. should be dressed off to achieve a level surface prior to the application. Concrete should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by shot blasting to a minimum of (CSP 3-4 as per ICRI guidelines). Sweep and vacuum any remaining dirt and dust with a wet/dry vacuum. Removing residual dust will help ensure a tenacious bond between the primer and substrate. The compressive strength of the concrete substrate should be at least 3500 psi at 28 days and at least 250 psi in tension at the time of application of Sikalastic [®] FTP primer.
Mixing	<b>7 gal. kit:</b> It is important to remember that this coating has a limited pot life of approximately 1 hour at 77°F (25°C) and 50% relative humidity. Do not use beyond this frame regardless of whether or not the product appears to still be usable. Review that all surface preparation is complete and application equipment is in good working order before starting the mixing sequence.
	<ol> <li>Premix each component. Sikalastic[®] FTP primer, Part B is dark olive green in color and may appear black in the container. Sikalastic[®] FTP primer, Part A is light amber in color.</li> <li>Add the 1 gallon of Sikalastic[®] FTP primer, Part A to the 1.25 gallons of Part B in the</li> </ol>
	short filled Part B pail.
	<ol> <li>Mix thoroughly with a low speed (300 - 500 rpm) drill with Jiffy paddle for a minimum of 3 minutes. The mixture will appear as a uniform light olive green color.</li> </ol>
	4. Slowly add 1.25 gallons of potable water to the mixture under agitation.
	<ol> <li>Mix for a minimum of 2 additional minutes until the mixture is fully dispersed. Fully dispersed material will appear as light yellow to white in color.</li> </ol>
	<b>1 gal. kit:</b> It is important to remember that this coating has a limited pot life of approximately 1 hour at 77°F (25°C) and 50% relative humidity. Do not use beyond this frame regardless of whether or not the product appears to still be usable. Review that all surface preparation is complete and application equipment is in good working order before starting the mixing sequence.
	1. Premix each component. Sikalastic [®] FTP primer, Part B is dark olive green in color and may appear black in the container. Sikalastic [®] FTP primer, Part A is light amber in color.
	<ol> <li>Add the 0.28 gallons of Sikalastic[®] FTP primer, Part A to the 0.35 gallons of Part B in the short filled Part B can.</li> </ol>
	<ol> <li>Mix thoroughly with a low speed (300 - 500 rpm) drill with Jiffy paddle for a minimum of 3 minutes. The mixture will appear as a uniform light olive green color.</li> </ol>
	4. Slowly add 0.35 gallons of potable water to fill the gallon can under agitation.
	<ol> <li>Mix for a minimum of 2 additional minutes until the mixture is fully dispersed. Fully dispersed material will appear as light yellow to white in color.</li> </ol>
	<b>NOTE:</b> The order that the FTP components are mixed is critical to the performance of this product. Failure to mix properly may result in an incomplete cure, despite a dry appearance.
Application	Apply with flat squeegee or roller at the recommended rate. Allow for sufficient wetting of the slab and backroll, utilizing a ¼" or ¾" nap roller to eliminate puddles on the surface of the slab. Minimize the overlap from batch to batch or bead-to-bead applications while achieving complete slab coverage, as these areas of overlap may not bond.
Removal	Remove wet primer with MEK, xylene, or oxygenated solvents. Once cured, primer can only be removed by mechanical means. Strictly follow solvent manufacturer's warnings and instructions for use.



Over Painting	Sikalastic [®] FTP primer has a recoat window of up to 48 hours. Do not apply a secon coat of Sikalastic [®] FTP primer, as it will not properly bond. There is no need for additional mechanical or chemical preparation of the Sikalastic [®] FTP primer prior to the installation of the topcoat, if recoated with in the recoat window, and the Sikalastic [®] FTP primer had not been exposed to foot or vehicular traffic or similar. If the recoat window is missed (4 hours) the surface requires grinding or screening with 80 grit, followed by a broom swee and vacuum, prior to reapplication of Sikalastic [®] FTP primer.
Limitations	<ul> <li>Product must be protected from freezing. If frozen, discard.</li> <li>To avoid dew point conditions and prolonged cure during application, relative humidity must be no more than 85% and substrate temperature must be at least 5°F (3°C) above measured dew point temperatures.</li> <li>Minimum ambient and substrate temperature during application and curing of material is 41°F (5°C); maximum is 90°F (32°C). Frequent monitoring of ambient ad substrate temperature swill accelerate it.</li> <li>Do not apply on substrates with moisture content greater than 4% by weight, measured b a Tramex CME or CMExpert type concrete moisture enterneter.</li> <li>Minimum age of concrete must be 21-28 days depending on curing and drying conditions.</li> <li>The compressive strength of the concrete substrate should be at least 3500 psi at 28 day and at least 250 psi in tension at the time of application of Sikalastic[®] FTP Primer.</li> <li>Do not store materials outdoors exposed to sunlight and moisture for prolonged periods.</li> <li>Do not store materials outdoors exposed to sunlight and moisture for prolonged periods.</li> <li>Do not store materials outdoors exposed to sunlight and moisture for damp surface. Allow sufficient time for the substrate to dry after rain or inclement weather, as there is the potential for bonding problems.</li> <li>Protect freshly applied primer from freezing, dampness, condensation and water prior to top coating.</li> <li>Not intended for immersion applications, or any use where moisture ean reach the underside of the primed surface.</li> <li>Any repairs required to achieve a level surface must be selected its and y applid galing ambient and substrate temperature. If applied during rising temperature pinholing may occur.</li> <li>Preceutions should be taken to prevent vapors and/or odors from entering the building/ structure, including but not limited to turning off and sealing alin intake vents and through-wall aronditioners, and other means o</li></ul>



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# Sikalastic[®] FTP Lo-VOC Primer

Two-component high solids epoxy primer

Sikalastic® FTP Lo-VOC primer is a two-component, high solids epoxy primer for use with Sikalas- tic traffic deck coatings.
Use with Sikalastic® Traffic Systems as a primer on concrete, cementitious or plywood surfaces exposed to vehicular or pedestrian traffic. Refer to the Sikalastic® 710 Lo-VOC/715 Lo-VOC/736 AL Lo-VOC, the Sikalastic 710/715/735 AL, and the Sikalastic 720/745 Traffic System Data Sheets for system application instructions as well as limitations.
<ul> <li>Low VOC</li> <li>Fast dry time</li> <li>Low odor</li> <li>Moisture tolerant</li> </ul>
Approximately 300 s.f./gal. Porous and rough substrates will increase consumption.
3 gal. Kit: Component A: 2 US gal. (7.57 L)
Component B: 1 US gal. (3.78 L)
Components A+B: 3 US gal. (11.35 L)
15 gal. Kit: Component A: 2 x 5 US gal. (2 x 18.9 L)
Component B: 1 x 5 US gal. (18.9 L)
Components A+B: 15 US gal. (56.7 L)
-

### Typical Data (Material and curing conditions at 75°F (24°C) and 50% RH)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life	1 year in origi ditions.	nal unopened c	container under proper storage con-
Storage Conditions		veen 40° - 90°F )°C) before usin	(4°-32°C). Condition material to 65° ng.
Color	Green transpa	arent after mixin	ng
Pot Life	Approx 20 - 3	0 minutes @ 75	5°F (24°C) and 50% relative humidity
Recoat Time	Up to 16 hrs.	@ 75°F (24°C)	
Cure Time	Approximately	/ 4-6 hrs. @ 75°	°F (24°C) and 50% relative humidity
Flash Point	>200°F (93.3°	°C)	
Shore D Hardness (7	days)	ASTM D2240	70 +/- 5 Shore D
VOC Content		ASTM D2369	≤ 90 g/L
Viscosity (approx.)		Components A	4 + B: 600 +/- cps
Total Solids by Weigh	nt	ASTM D-2369	91%
Total Solids by Volum	ie	ASTM D-2697	90%



inf be Cc su va a t str of Pl an tai Mixing Pr ma int int int the 3 r ca Application Ap We the Removal Re	urface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds, bond hibiting impregnations, waxes and any other contaminants. All projections, rough spots, etc. should e dressed off to achieve a level surface prior to the application. <b>oncret</b> - Should be cleaned and prepared to achieve a laitance and contaminant-free, open textured urface by blast cleaning or equivalent mechanical means (CSP-3-4 per ICRI guidelines). Sweep and acuum any remaining dirt and dust with a wet/dry vacuum. Removing residual dust will help ensure tenacious bond between the primer and substrate. The compressive strength of the concrete subtrate should be at least 3500 psi at 28 days and at least 250 psi in tension at the time of applicatior f Sikalastic® FTP Lo-VOC primer. <b>Iywood</b> - Should be clean and smooth, APA and exterior grade, not less than 1/2" thick, and spaced and aupported accoprding to APA guidelines. Joints should be sealed with Sikaflex 2c or 1a and de tiled, and may need embedded fabric reinforcement. Termix Part A (blue liquid) and Part B (yellow liquid) components separately using a low speed (400-600 pm) mechanical mixer and Jiffy Paddle at slow speed to obtain uniform color (typically 30 seconds) to Part A slowly and while mixing scrape the solids of the pail. For the 3 gallon kit, pour Part A to a separate mixing vessel and then pour part B into Part A. Mixing ratio is 2 parts A to 1 part B. Mixing ecombined material thoroughly until a homogenous mixture and uniform color is obtained (typically minutes). Use care not to allow the entrapment of air into the mixture. Do not mix more material thar an be applied within the working time limits (i.e. Pot Life) at the actual field temperature. Ipply with flat squeegee or phenolic resin core roller at the recommended rate. Allow for sufficient eting of the slab and backroll, utilizing a ¼" or ¾" nap roller to eliminate puddles on the surface or the slab.
Application Ap Removal Re by	om) mechanical mixer and Jiffy Paddle at slow speed to obtain uniform color (typically 30 seconds) haking sure to scrape the solids from the bottom and sides of the pail. For the 3 gallon kit, pour Part E to Part A slowly and while mixing scrape the side of the container, For the 15 gallon kit, pour Part A to a separate mixing vessel and then pour part B into Part A. Mixing ratio is 2 parts A to 1 part B. Mixine combined material thoroughly until a homogenous mixture and uniform color is obtained (typically minutes). Use care not to allow the entrapment of air into the mixture. Do not mix more material than an be applied within the working time limits (i.e. Pot Life) at the actual field temperature. pply with flat squeegee or phenolic resin core roller at the recommended rate. Allow for sufficient retting of the slab and backroll, utilizing a ¼" or ¾" nap roller to eliminate puddles on the surface one slab.
we the Removal Re by	etting of the slab and backroll, utilizing a ¼" or %" nap roller to eliminate puddles on the surface on the slab. The slab. The move wet primer with MEK, xylene, or oxygenated solvents. Once cured, primer can only be removed y mechanical means. Strictly follow solvent manufacturer's warnings and instructions for use.
by	y mechanical means. Strictly follow solvent manufacturer's warnings and instructions for use.
Limitations	
	no more than 85% and substrate temperature must be at least 5 °F (3 °C) above measured dew point temperatures. Minimum ambient and substrate temperature during application and curing of material is 41 °F (5 °C); maximum is 95 °F (35 °C). Frequent monitoring of ambient and substrate temperature should always be done when applying epoxy primers. Note that low temperatures will slow down the cure, and high temperatures will accelerate it. Primer materials will become more viscous at lower application temperatures and be more difficult to spread, which may affect yield. Material not preconditioned to at least 65°F (18°C) is likely to exhibit these characteristics. Maximum moisture content of concrete substrate by weight when measured with a Tramex CME or CMExpert type concrete moisture meter: 4% for exterior exposed decks with one application of Sikalastic FTP Lo-VOC Primer; 5% for interior protected decks with one application of Sikalastic FTP Lo-VOC Primer; 5% for interior protected decks with one application of Sikalastic FTP Lo-VOC Primer; 5% for interior protected decks with one application of Sikalastic FTP Lo-VOC Primer. Minimum age of concrete must be 21-28 days depending on curing and drying conditions. The compressive strength of the concrete substrate should be at least 3500 psi at 28 days and at least 250 psi in tension at the time of application of Sikalastic FTP Lo-VOC Primer. Do not thin with solvents. Do not store materials outdoors exposed to sunlight and moisture for prolonged periods. Do not store materials outdoors exposed to sunlight and moisture for prolonged periods. Do not apply to substrate surfaces where moisture vapor transmission will occur during application and cure. This condition may be checked using ASTM D-4263 (Polyethylene Sheet method). Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Allow sufficient time for the substrate to dry after rain or inclement weather, as there is the potential for bonding problems. Protect freshly

reflect through the cured system.

- On grade, lightweight concrete, asphalt pavement, or insulated split slab applications, or applications where chained or studded tires may be used should not be coated with Sikalastic Traffic Systems.
- Unvented metal pan decks or decks containing between-slab membranes require further technical evaluation prior to coating with Sikalastic Traffic Systems - the use of a moisture tolerant primer such as Sikalastic MT primer is require - contact Sika regarding recommendations.
- Sikalastic FTP Lo-VOC Primer has a recoat window of 16 hours. If the recoat window is exceeded, the primed surface must be abraded (grinding or sanding), followed by a broom sweep and vacuum, prior to reapplication of Sikalastic FTP Lo-VOC Primer.
- Primer is not UV stable and must be topcoated.
- Not recommended for metal substrates.

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# Sikalastic[®] PF Lo-VOC Primer

Two-component high solids pore filling/ sealing epoxy primer

Description		PF Lo-VOC primer is a two-component, high solids pore filling/sealing epoxy primer for calastic traffic deck coatings.	
Where to Use	Use with Sikalastic® Traffic Systems as a primer on concrete, cementitious or plywood surfaces exposed to vehicular or pedestrian traffic. May also be used to prime metal flashings and penetrations. Refer to the Sikalastic® 710 Lo-VOC/715 Lo-VOC/736 AL Lo-VOC, the Sikalastic 710/715/735 AL, and the Sikalastic 720/745 AL Traffic System Data Sheets for system application instructions as well as limitations. Use with Sikalastic® 320 NS/SL - Single Conponent, bitumen modified waterproofing membrane as primer when required.		
Advantages	<ul> <li>Low VO0</li> <li>Fast dry</li> <li>Low odo</li> <li>Fills and</li> <li>Moisture</li> </ul>	time r seals rough and porous substrates	
	Approximately 200 s.f./gal. Porous and rough substrates will increase consumption.		
Coverage	Approximat	ely 200 s.f./gal. Porous and rough substrates will increase consumption.	
Coverage Packaging		ely 200 s.f./gal. Porous and rough substrates will increase consumption. Component A: 1 US gal. (3.78 L)	
U			
U		Component A: 1 US gal. (3.78 L)	
U	2 gal. Kit:	Component A: 1 US gal. (3.78 L) Component B: 1 US gal. (3.78 L)	
U	2 gal. Kit:	Component A: 1 US gal. (3.78 L) Component B: 1 US gal. (3.78 L) Components A+B: 2 US gal. (4.16 L)	

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Shelf life	1 year in orig ditions.	inal unopened con	tainer under proper storage con-
Storage Conditions		· ·	°- 32°C). Precondition material 5°- 75°F (18°- 24°C).
Color	Grey after m	ixing	
Pot Life	Approx 30 - 4	45 minutes @ 75°F	(24°C) and 50% relative humidity
Recoat Time	Up to 16 hrs.	@ 75°F (24°C)	
Cure Time	Approximate	ly 3-5 hrs. @ 75°F	(24°C) and 50% relative humidity
Shore D Hardness (7	days)	ASTM D2240	70 +/- 5 Shore D
VOC Content		ASTM D2369	≤ 91 g/L
Viscosity (approx.)		Components A +	B: 30 +/- ps
Total Solids by Weigl	ht	ASTM D-2369 9	4%
Total Solids by Volum	ne	ASTM D-2697 9	1%



Surface Preparation	
	Surface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds, bor inhibiting impregnations, waxes and any other contaminants. All projections, rough spots, etc. shou be dressed off to achieve a level surface prior to the application. <b>Concrete</b> - Should be cleaned and prepared to achieve a laitance and contaminant-free, open texture surface by blast cleaning or equivalent mechanical means (CSP-3-4 per ICRI guidelines). Sweep an vacuum any remaining dirt and dust with a wet/dry vacuum. Removing residual dust will help ensure a tenacious bond between the primer and substrate. The compressive strength of the concrete sul strate should be at least 3500 psi at 28 days and at least 250 psi in tension at he time of application of Sikalastic® PF Lo-VOC primer. <b>Plywood</b> - Should be clean and smooth, APA and exterior grade, not less than 1/2" thick, and space and supported accoprding to APA guidelines. Joints should be sealed with Sikaflex 2c or 1a and du tailed, and may need embedded fabric reinforcement. <b>Metal</b> - Should be thoroughly cleaned by solvent wiping, then grinding or blast cleaning to near whi metal (SSPC SPC-10).
Mixing	Premix Part A (black liquid) and Part B (white liquid) components separately using a low speed (400-60 rpm) mechanical mixer and Jiffy Paddle at slow speed to obtain uniform color (typically 30 seconds making sure to scrape the solids from the bottom and sides of the pail. For both the 2 and 10 galloc kits, pour Part A into a separate mixing vessel and then pour part B into Part A. Mixing ratio is 1 pa A to 1 part B. Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Do n mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual fie temperature
Application	Apply with flat squeegee or phenolic resin core roller at the recommended rate. Allow for sufficie wetting of the slab and backroll, utilizing a ¼" or %" nap roller to eliminate puddles on the surface the slab.
Removal	Remove wet primer with MEK, xylene, or oxygenated solvents. Once cured, primer can only be remove by mechanical means. Strictly follow solvent manufacturer's warnings and instructions for use.
Limitations	<ul> <li>To avoid dew point conditions and prolonged cure during application, relative humidity must be no more than 85% and substrate temperature must be at least 5 °F (3 °C) above measured dew point temperatures.</li> <li>Minimum ambient and substrate temperature during application and curing of material is 41 °F (5 °C); maximum is 95 °F (35 °C). Frequent monitoring of ambient and substrate temperature should always be done when applying epoxy primers. Note that low temperatures will slow down the cure, and high temperatures will accelerate it.</li> <li>Primer materials will become more viscous at lower application temperatures and be more difficult to spread, which may affect yield. Material not preconditioned to at least 65°F (18°C) is likely to exhibit these characteristics.</li> <li>Maximum moisture content of concrete substrate by weight when measured with a Tramex CME or CMExpert type concrete moisture meter: 4% for exterior exposed decks with one application of Sikalastic PF Lo-VOC Primer; 5% for interior protected decks with one application of Sikalastic PF Lo-VOC Primer.</li> <li>Minimum age of concrete must be 21-28 days depending on curing and drying conditions.</li> <li>The compressive strength of the concrete substrate should be at least 3500 psi at 28 days and at least 250 psi in tension at the time of application of Sikalastic PF Lo-VOC Primer.</li> <li>Do not store materials outdoors exposed to sunlight and moisture for prolonged periods.</li> <li>Do not apply to substrate surfaces where moisture vapor transmission will occur during application and cure. This condition may be checked using ASTM D-4263 (Polyethylene Sheef method).</li> </ul>

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- Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various product solutions). Surface irregularities may reflect through the cured system.
- On grade, lightweight concrete, asphalt pavement, or insulated split slab applications, or applications where chained or studded tires may be used should not be coated with Sikalastic Traffic Systems.
- Unvented metal pan decks or decks containing between-slab membranes require further technical evaluation prior to coating with Sikalastic Traffic Systems - the use of a moisture tolerant primer such as Sikalastic MT primer is required - contact Sika regarding recommendations.
- Sikalastic PF Lo-VOC Primer has a recoat window of 16 hours. If the recoat window is exceeded, the primed surface must be abraded (grinding or sanding), followed by a broom sweep and vacuum, prior to reapplication of Sikalastic PF Lo-VOC Primer.
- Primer is not UV stable and must be topcoated.

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# Sikalastic[®] MT Primer

Moisture Tolerant Primer

Description		onent, high solids, red perform as a moisture		xy primer. This	epoxy primer is specially	
Where to Use	moisture con (see Sikalast	tent of the deck is ≥ 49 ic® traffic coating system kaLevel underlayments	6 and exceeds li m data sheets).	mitations of stan Sikalastic MT Pri	e traffic coatings when the dard primer requirements mer is also intended as a e moisture content of the	
	mass (pbw - CMExpert ty composite d	Use of Sikalastic [®] MT Primer is required where a moisture content between $\ge 4$ and $\le 6\%$ mass (pbw – part by weight) is measured on a concrete substrate with Tramex [®] CME or CMExpert type concrete moisture meter. Also required for non-vented concrete/steel pan composite decks and split-slab applications with encapsulated waterproofing. If moisture content exceeds 6% mass, use Sikafloor [®] 81 EpoCem as a pre-priming surface treatment.				
Advantages	Excellent p	enetration and adhesio	n.			
	Moisture to					
	Low Tensil					
		sile Elongation.				
Cure Machania	Low VOC.					
Cure Mechanis		Chemical Cure 160 - 200 ft. ² /gal. Note: Surface texture and porosity can affect coverage rate.				
Coverage		5	, ,		<u> </u>	
Packaging	Component A:	3 05 gai. (11.3 L); Compo	onent B: 1.5 US gai	. (5.7 L); Compone	nts A+B: 4.5 US. gal. (17 L)	
	Typical Data	pical Data				
		SULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, IPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.				
	Shelf Life		2 years in origi proper storage	nal unopened co conditions.	ntainer under	
	Store		dry between 40	0°- 90°F (4°- 32°	°C)	
	Product Conditi	oning	Precondition material for at least 24 hours between $65^{\circ}$ - $75^{\circ}F$ ( $18^{\circ}$ - $24^{\circ}C$ )			
	Color	Red transparent after	mixing			
	Coverage		ss (w.f.t.). *One o e moisture is <59	coat of Sikalastic % (as measured	8 – 10 mils (0.20 – 0.25 [®] MT is required when with Tramex [®] CME/	
			nd < 6% (as mea	sured with Tram	ncrete substrate moisture ex [®] CME/CMExpert type 6 - 20 mils.	
	Pot Life	Material Temperatur +50°F (10°C) +68°F (20°C) +86°F (30°C)	e Time ~ 50 minu ~ 25 minu ~ 15 minu	tes		
	Waiting/ Recoat	Times Before applyin	g second coat	of Sikalastic [®] M	T allow:	
	Ū	Ambient & Substrate		Minimum	Maximum	
		+50°F (10°C)		24 hours	3 days	
		+68°F (20°C)		8 hours	2 days	
		+86°F (30°C)		6 hours	1 day	
R	INSTRUCTION	IS ON THE PRODUCT'S MOST C	URRENT PRODUCT DA	ATA SHEET, PRODUCT	FOLLOW THE WARNINGS AND LABEL AND SAFETY DATA SHEET CHNICAL SERVICE DEPARTMENT	

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	Before ap	pplying \$	Sikalastic [®] 710	, 720, or 390 on S			
	Maximum	n	+50°F (10°C) +68°F (20°C) +86°F (30°C)	Ambient &	& Substrate 1 24 hours 8 hours 6 hours	rs S	<b>Minimum</b> 3 days 2 days 1 day
	Cure Tim	nes Arr	hbient & Subst +50°F (10°C) +68°F (20°C) +86°F (30°C)	rate Temperature	Foot traffic ~ 24 hours ~ 8 hours ~ 6 hours		
	Propertie	es Testeo	d at 73°F (23°C	) and 50 % R.H:		> 400 psi (2.7	MPa)
	Pull-off S	Strength	ASTM D4541			(100% concret	te failure)
	Shore D	Hardnes	s (7 days) AS ⁻	FM D2240		78 - 82	
	VOC Con	ntent AS ⁻	TM D2369			≤ 50 g/L	
	Permeab	ility AST	M E96			9.0 g/m² (24 h	ours / +75°F)
	Water Ab	osorptior	ASTM D570			0.14 g/h - m²	
	Viscosity	y (approx	K.)			822(SP2/100)	Components A + B:
	Chemica	I Resista	ance			Please consul Services.	t Sika Technical
How to U	se						
Surface Preparation	Sui	nibiting im	pregnations, wa		ontaminants. A	Il projections, ro	ng compounds, bond ugh spots, etc. should
	tex Sw	ctured sur veep and	face by blast cloved any rer	eaning or equivalent	t mechanical n t with a wet/dry	neans (CSP-3-4 v vacuum. Remo	ntaminant-free, open per ICRI guidelines). wing residual dust will
	spa	aced and	supported acco		lines. Joints sh		than 1/2" thick, and with Sikaflex 2c or 1a
			uld be thoroughl C SPC-3).	y cleaned by solven	t wiping, then g	grinding or blast o	cleaning to near white
Mixing	mix to s mix mix air	xer and J scrape th xing scrap xture and into the r	liffy Paddle at s e solids from th pe the side of th uniform color is	low speed to obtain e bottom and sides e container, Mix the obtained (typically mix more material th	n uniform color of the pail. Po e combined ma 3 minutes). Us	(typically 30 se ur Part B into Pa aterial thoroughly se care not to all	600 rpm) mechanical econds), making sure art A slowly and while y until a homogenous ow the entrapment of vorking time limits (i.e.
Application	8 – pre Apj 8 – the dip be	<ul> <li>10 mils</li> <li>essure aft</li> <li>oply a sec</li> <li>10 mils</li> <li>first print</li> <li>oping rolle</li> <li>coated a</li> </ul>	(0.20 – 0.25 m er 20 minutes. ( ond primer coa (0.20 – 0.25 m ner coat is tack r into mixing cor nd then spread	<ul> <li>n) wet film thickness</li> <li>Coverage will vary d</li> <li>t by squeegee at the</li> <li>n) wet film thicknes</li> <li>free, which is typica</li> <li>ntainer. Pour a bead</li> <li>with squeegee and b</li> </ul>	s and back rol lepending on the e rate of 160 - s and back rol ally after 12 ho of product in the back roll. Ensul	I with a phenolic he porosity of the 200 ft ² / US ga I with pressure a urs at +68°F (20 he form of a ribbe re that the secon	al $(3.4 - 4.9 \text{ m}^2 / \text{L})$ at e resin core roller with e prepared substrate. I $(3.4 - 4.9 \text{ m}^2 / \text{L})$ at after 20 minutes after 0°C). Do not apply by on on the substrate to ad coating is pore-free concrete substrate.
	10 will mix	mils (0.20 I vary de xing conta	0 – 0.25 mm) we pending on the	et film thickness and porosity of the prep ad of product in the	back roll with	a phenolic resin e. Do not apply	$3.4 - 4.9 \text{ m}^2$ /L) at 8 – core roller. Coverage by dipping roller into rate to be coated and
				ush or phenolic resir 15 – 0.18 mm) wet			- 275 ft² / US gal (5.5
R			TIONS ON THE PROP		PRODUCT DATA SH	IEET, PRODUCT LAB	LOW THE WARNINGS AND EL AND SAFETY DATA SHEET

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	<b>Aggregate</b> –Aggregate is not required for traffic coating applications if Sikalastic MT Primer is recoated within the maximum recoat window. When an extended application window is desired, or when using Sikalastic MT Primer in conjunction with SikaLevel underlayments and patching mortars, oven dried silica sand (20/30) shall be broadcast to refusal at a typical rate of 2 lbs/sf into a second coat of Sikalastic MT Primer immediately upon primer application. Remove excess sand following cure prior to underlayment/patching mortar application.
Limitations	<ul> <li>To avoid dew point conditions during application, relative humidity must be no more than 95% and substrate temperature must be at least 5°F (3°C) above measured dew point temperatures.</li> <li>Maximum moisture content of concrete substrate by weight when measured with a Tramex CME or CMExpert type concrete moisture meter : 5% with one application of Sikalastic[®] MT primer; 6% with two applications of Sikalastic[®] MT primer.</li> <li>Primer materials will become more viscous at lower application temperatures and be more difficult to spread, which may affect yield. Material not preconditioned to at least 65°F (18°C) is likely to exhibit these characteristics.</li> <li>Minimum ambient and substrate temperature during application and curing of material is 50° F (10°C); maximum is 85°F (30°C). Frequent monitoring of ambient and substrate temperatures will slow down the cure, and high temperatures will accelerate it.</li> <li>Do not store materials outdoors exposed to sunlight for prolonged periods.</li> <li>Do not thin with solvents.</li> <li>Minimum age of concrete must be 21-28 days, depending on curing and drying conditions.</li> <li>The compressive strength of the concrete substrate should be at least 3500 psi at 28 days and at least 250 psi in tension at the time of application of Sikalastic[®] MT Primer.</li> <li>Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various Sika product solutions). Surface irregularities may reflect though the cured system.</li> <li>Do not apply to a porous or damp surface where moisture vapor transmission will occur during application and cure.</li> <li>Substrate must be dry prior to application. Do not apply to a fosted, wet or damp surface.</li> <li>Do not subject to continuous immersion.</li> <li>On grade, lightweight concrete, asphalt pavement, or insulated split slab applications, or applications, bure chained or studded tires may be used should not be coated with Sikalastic[®] MT</li></ul>



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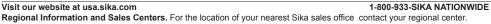
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# Sikalastic[®] Recoat Primer

Two-Component, High Solids, Aromatic Polyurethane Primer

Description	Sikalastic Recoat Primer is a two component, high solids, liquid applied primer. Optional: Sikalastic ACL Accelerator (see separate data sheet).
Where to Use	<ul> <li>Partially completed new urethane coating systems</li> <li>Recover of existing urethane coating systems</li> <li>Repair of existing urethane coating systems</li> </ul>
Advantages	<ul> <li>High Solids</li> <li>Fast Re-Coat Time</li> <li>Low Odor</li> <li>Low Viscosity</li> </ul>
Coverage	300 sf/gal.
Cure Mechanism	Chemical Cure

# Typical Data (Material and curing conditions @ 74°F (22°C) and 40% R.H.)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life: Storage:	
Product Conditioning:	
using.	
Color:	
Coverage Rate:	
Total Weight Solids (ASTM D-2697):	
Total Volume Solids (ASTM D-2697):	
VOC Content (ASTM D-2369-81):	
Dry Film Thickness per Coat:	
Viscosity - Parts A & B Combined:	
Specific Gravity:	

Condition material to 65-85 °F (18-30 °C) before Green Gray 300 sf per gal. ): 97.8% 7): 97.7% 100 g/l 5 +/- 1 mils 500 +/- 100 cps Part A - 1.22 Part B - 0.98

1 year in original, unopened containers. Store dry at 60-95 °F (15-35 °C).

Sikalastic Recoat Primer without Sika	ASUC TOU ACL ACCElerator
Min. Application Temp.:	40°F, and at least 3°F above the dew point
Typical Pot Life:	45 minutes @ 40°F (4°C), 50% R.H. 25 minutes @ 75°F (24°C), 50% R.H. 20 minutes @ 90°F (32°C), 50% R.H.
Min.Time to Recoat:	12 hours @ 40°F (4°C), 50% R.H. 3 hours @ 75°F (24°C), 50% R.H. 3 hours @ 90°F (32°C), 50% R.H.
Max.Time to Recoat:	12 hours @ 75°F (24°C), 50% R.H.
Sikalastic Recoat Primer with Sikalast	ic 700 ACL Accelerator
Min. Application Temp.:	40°F, and at least 3°F above the dew point
Typical Pot Life:	25 minutes @ 40°F (4°C), 50% R.H. 15 minutes @ 75°F (24°C), 50% R.H. 10 minutes @ 90°F (32°C), 50% R.H.
Typical Pot Life: Min.Time to Recoat:	25 minutes @ 40°F (4°C), 50% R.H. 15 minutes @ 75°F (24°C), 50% R.H.



Packaging	10 gal. Kit, Comp. A-5 gal., Comp. B-5 gal.
How to Use Surface Preparation	Existing coating surface must be clean, dry and sound with an open texture. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes, and any other contaminants. All loose and flaking coating, projections, rough spots, etc. should be dressed off to achieve a well-bonded, level surface prior to the application. Mechanically abrade the existing coating as required to obtain an open, textured surface profile.
Mixing	Premix Part A and Part B components using a mechanical mixer (Jiffy) at slow speed to obtain uniform color, making sure to scrape the solids from the bottom and sides of the pail. Pour part B into Part A slowly and while mixing scrape the side of the container, Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). When mixing use care not to entrap air into the mixture.
	Sikalastic Recoat Primer can be applied with or without Sikalastic 700 ACL as an accelerator. In the event that Sikalastic 700 ACL is used, add two quarts Sikalastic 700 ACL into 10 gallons of mixed primer. Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). When mixing use care not to entrap air into the mixture
Application	Apply at the recommended coverage rate, typically 1 gallon per 300 sf, using a phenolic resin core roller. Coverage rate will depend on surface roughness and porosity. Reference Typical Data section for curing and recoat guidelines.
Removal	Remove liquid primer immediately with dry cloth. Once cured, primer can only be removed by mechanical means.
Over Painting	Sikalastic Recoat Primer without Sikalastic 700 ACL should be recoated within 12 hours once tack free. Sikalastic Recoat Primer with Sikalastic 700 ACL should be recoated within 6 hours once tack free.
Limitations	<ul> <li>To avoid dew point conditions during application relative humidity must be no more than 95% and substrate temperature must be at least 5°F (3°C) above measured dew point temperature.</li> <li>Minimum ambient and substrate temperature during application and curing of material is 40°F (4°C); maximum is 90 F. Frequent monitoring of ambient and substrate temperature should always be done when applying polyurethane coatings. Note that low temperatures and low humidity will slow down the cure, and high temperatures and high humidity will accelerate it.</li> <li>Do not store materials outdoors exposed to sunlight for prolonged periods.</li> <li>Do not store materials outdoors exposed to sunlight for vapors from entering the building/ structure, including but not limited to turning off and sealing air intake vents or other means of ingress for odors and for vapors into the building/structure during product application and cure.</li> <li>Do not apply to a porous or damp surface where moisture vapor transmission will occur during application and cure.</li> <li>Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Do not proceed if rain is eminent within 8-12 hours of application. Allow sufficient time for the substrate to dry after rain or inclement weather as there is the potential for bonding problems.</li> <li>When applying over existing coatings compatibility and adhesion testing is recommended.</li> <li>Do not subject to continuous immersion.</li> <li>Sikalastic Recoat primer must be kept clean and overcoated within 12 hours, or within 6 hours if Sikalastic ACL accelerator is used. If this overcoat window is exceeded, contact Sika for recommendations.</li> </ul>



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Product Data Sheet Edition 6.29.2016 Sikalastic 601 BC and Sikalastic 621 TC Roofing and Waterproofing System





FM

APPROVED

# Sikalastic[®] 601 BC (US) / 621 TC (US) Roofing and Waterproofing System

Liquid-applied single component fully reinforced system with fiberglass or polyester reinforcement

Description	Sikalastic 601 BC (US) and 621 TC single component, moisture-triggered to create a seamless membrane and	polyurethane resins	s with fiberglass mat	or polyester fleece	•
	Sika or Sikalastic Primer - Select prin Sikalastic 601 BC (US) - Base layer reinforcement				
	Sikalastic 621 TC (US) - Top layer re reinforcement. Resin used for all othe Sikalastic Reemat Premium - Chopp Sika Fleece 120, 140, 170 - Non-wo	er systems with both ed strand fiberglass	Reemat fiberglass a mat	nd polyester fleece	0
Where to Use	Sikalastic RoofPro systems, includin	•		•	nd Vegetated
	systems for both new construction a	nd refurbishment			-
	<ul> <li>Ideal for roofs displaying complex details and geometry or when accessibility is limited</li> <li>Effective and cost efficient life cycle extension of existing roofs</li> <li>Highly reflective Sikalastic 621 TC (US) in White (RAL 9016) suitable for cool roofs and solar semblies.</li> <li>Suitable for use for applications such as balconies, terraces, walkways, plazas, and similar applications</li> </ul>			ibility is limited	
				lar roof as-	
				ications	
	exposed to foot traffic when prov		• •		Ications
	Turnical Data was a				
	Typical Data (Material and cur RESULTS MAY DIFFER BASED UPON STA				JIPMENT.
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING (				
	Shelf Life 9 months for Sikalastic 621 TC and 9 months for Sik from date of production if stored in original, unopene				
		sealed packag	ing in dry conditions a		
	Storage	(4-25°C). Store drv at 35	5-77°F (2-25°C)		
	Product Conditioning	Condition mate	erial to 50-77°F (10-25		
	Chemical Base Density (all values at +23 degrees C)	Chemical Base Single component, moisture-triggered, aliphatic polyuretha			ane
	601 BC (US)	11.35 lbs/gal (*			
	621 TC (US) Solids Content	12.0 lbs/gal (1	.44 Kg/I)		
	601 BC (US)		me / 84.3 % by weigh	t	
	621 TC (US) Flash Point	81.3% by volu	31.3% by volume / 87.4% by weight		
	601 BC (US)	138°F (59°C)			
	621 TC (US) <b>VOC</b>	144°F (62°C)			
	601 BC (US)	212 g/L			
	621 TC (US) Service Temperature	183 g/L -22 to 176°F (	-30 - 80°C) intermitten	t	
	621 TC (US) White (RAL 9016) Solar Reflectance (Initial)	85.1% (ASTM	01540)		
	SRI (Solar Reflectance Index - Initial				
	Thermal Emittance	0.85 (ASTM C	1371)		_
	Physical Properties – Typical Values	ASTM Test Method	RoofPro 20	RoofPro 20	
	Reinforcement		Reemat Premium	Sika Fleece 140	
	Breaking Strength, psi	D751 Proc. B	1030	900	
	Elongation to Break, %	D751	21	82	
	Tear Strength, Ibf/in	D624	300	200	
	Static Puncture Resistance	D5602	>55 lbf	>55 lbf	
	Note: Data for other RoofPro assembl	lies available upon requ	uest		
					-



Advantages	<ul> <li>Proven technology with over 25 year track record</li> <li>Single component - no mixing and ready to use</li> <li>Fully reinforced with highly conformable Sika Reemat or Sika Fleece</li> <li>Moisture triggered chemistry that is rapidly weatherproof after application</li> <li>Highly elastic and crack bridging</li> <li>Seamless and fully adhered</li> <li>Vapor permeable</li> <li>UV resistant and non-yellowing</li> </ul>
	<ul> <li>Abrasion and chemical resistant</li> <li>Adheres to most common construction materials when suitable primer is used.</li> </ul>
Approvals	FM Approval Standard 4470 for Class 1 Roof Covers
	<ul> <li>ASTM E-108-00 Spread of Flame meets Class A at a slope of 1 in 12</li> <li>Simulated wind uplift pull testing meets up to Class 1-990</li> <li>Simulated hail damage testing meets rating of SH - Severe Hail</li> </ul>
	Miami-Dade County NOA for Roof Systems over Concrete and Steel Decks
	USGBC LEED rating: Conforms to LEED SS Credit 7.2 for Heat Island Effect - Roof with SRI >/=78
	Energy Star approval for Sikalastic 621 TC (US) White (RAL 9016)
	Meets ASTM D7311-07: Standard Specification for Liquid-Applied, Single-Pack, Moisture-Triggered, Aliphati Polyurethane Roofing Membrane.
Coverage	See Application below
Cure Mechanism	Moisture-triggered
Chemical Resistance	<ul> <li>Strong resistance to a wide range of reagents, including paraffin, petrol, fuel oil, white spirit, acid rain, detergents and moderate solutions of acids and alkalis. Some low molecular weight alcohols can soften the material Contact Technical Service for specific recommendations.</li> <li>Salt spray to ASTM B117 (1000 hours continuous exposure) and prohesion testing to ASTM G85-94: Annex A5 (1000 hours cyclic exposure)</li> </ul>
Packaging	5 gal. pails
Colors	601 BC (US)Oxide red621 TC (US)White (RAL 9016), Pearl Gray, Steel Gray, Mushroom, Copper Green; custom colorsavailable with minimum order
How to Use	
Surface Preparation	See Application below
Application	Substrate Evaluation
	Concrete and cementitious substrates New concrete shall be allowed to cure a minimum of 28 days. Concrete shall have a minimum compressive strength of 20.7 MPa (3000 psi) and exhibit a minimum tensile bond strength of 1.4 MPa (200 psi). time. Mois or sheet curing methods should be used, as opposed to the use of curing compounds, which may interfere with the bond of the membrane. Inspect the concrete, including upstands, and all areas should be hammer tested Concrete must be suitably finished, preferably by wood float or steel pan. A power float finish is acceptable where the surface is prepared to avoid laitance (a tamped finish is not acceptable). The surface finish must be uniform and free from defects such as laitance, voids or honeycombing.
	Gypsum and Cement based sheathing Sheathing boards shall be clean, dry and dust free, and shall be properly secured to the structure. Loose damaged, or contaminated boards shall be removed and replaced.
	Brick and stone Mortar joints must be sound and preferably flush pointed.
	Asphalt Asphalt contains volatiles which can cause bleeding and slight non-detrimental staining. The asphalt must be carefully assessed for moisture and/or air entrapment, grade and surface finish.
	Bituminous felt Ensure that bituminous felt is firmly adhered or mechanically fixed to the substrate. Bituminous felt shall no
	contain badly degraded areas.
	contain badly degraded areas. <u>Bituminous coatings</u> Bituminous coatings shall not have sticky or mobile surfaces, volatile mastic coatings, or old coal tar coatings

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RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

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## Wooden substrates

Plywood and timber based roof decks must be in good condition, firmly adhered and mechanically fixed. All plywood should be identified as conforming to PS 1 for construction and industrial plywood by grade, APA (American Plywood Association) trademark, or equivalent. For maximum smoothness, EXT Type APA, Grade A-C should be used, and the "A" side should be positioned to receive the Sikalastic resin.

Plywood decks to receive resin directly shall be at least 1/2 inch thick and attached and supported according to APA guidelines, using only non-rusting screw, spiral or coated nail type fasteners. A good practice would be to recess or counter sink fasteners 1/8 to 1/4 inch and fill with Sikaflex sealant. Suitable edge support to prevent differential deflection between panels shall be provided. Panel edges shall be tongue and groove or supported on solid blocking. Space panels 1/8 to 3/16 inch at panel ends.

#### Paints and coatings

Ensure the existing material is sound and firmly adhered.

#### Existing Sikalastic RoofPro System

The existing Sikalastic RoofPro System shall be soundly adhered to the substrate.

#### Surface Preparation

# Concrete and cementitious substrates

Cementitious or mineral based substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and to achieve an open textured surface (CSP 3-5 per ICRI guidelines). Loose friable material and weak concrete must be completely removed and surface defects such as blowholes and voids must be fully exposed. The amount of embedment coat required may increase over rough or highly porous surfaces.

Repairs to the substrate, filling of joints, blowholes/voids and surface levelling must be carried out. Consult Sika for product recommendations based on project requirements. High spots must be removed by grinding or similar method.

Outgassing is a naturally occurring phenomenon of concrete that can produce pinholes in liquid applied materials. The concrete must be carefully assessed for moisture content, air entrapment, and surface finish prior to any roofing/waterproofing work. Particular requirements for priming must also be considered. Installing the primer and membrane either when the concrete temperature is falling or stable can reduce outgassing. It is generally beneficial, therefore, to apply the primer and embedment coat in the late afternoon or evening.

#### Gypsum and Cement based sheathing

Sheathing boards shall be clean, dry and dust free. Secure loose boards if in sound condition. Damaged or contaminated boards shall be removed and replaced.

#### Brick and stone

Power wash and use biodegradeable non-sudsing detergent with clean water rinse as required.

#### Asphalt

Power wash and use biodegradeable non-sudsing detergent with clean water rinse as required. All major cracks should be sealed to allow continuity of the Sikalastic RoofPro system.

#### **Bituminous felt**

Power wash and use biodegradeable non-sudsing detergent with clean water rinse as required. Treat blisters by star cutting and removing any underlying water. Allow to dry and re-adhere using suitable adhesive.

#### **Bituminous coatings**

Remove any loose or degraded coatings.

#### <u>Metals</u>

Ferrous metals should be thoroughly cleaned by grinding or blast cleaning prior to priming (SSPC-SP3 to near-white metal) .

Non-ferrous metals are prepared by removing any deposits of dust and oxidation and abrading to bright metal. Wire brushing can be used for soft metal such as lead. The surface must be clean and free from grease which, if present, must be removed with a solvent wipe or wash with detergent, rinse and dry.

#### Wooden substrates

Timber and timber based roof decks require additional reinforcement such as the installation of plywood, approved insulation or cover board. Small timber protrusions and suitable decks may be treated directly, provided that the timber is of exterior quality, e.g. plywood. Fill joints flush with Sikaflex sealant.



# Paints/Coatings

Remove any loose or degraded coatings. Ensure the surface is clean and free from grease.

# Sikaplan[®]/Sarnafil[®] membranes

Clean membranes with Sarna Cleaner (PVC membranes) and Sarnafil® T Clean (TPO membranes) prior to application of primer.

# Existing Sikalastic RoofPro Systems

Clean the membrane using a water jet at approximately 140bar (2000 psi) and biodegradeable non-sudsing detergent with clean water rinse. Allow to dry.

### Priming

Refer to Priming Guide to select primer for properly evaluated and prepared substrate. Refer to separate primer Product Data Sheet for application methods, coverage rates, cure times and recoat windows. Always allow primer to cure thoroughly before applying detail or base resin layer.

# Sikalastic RoofPro Priming Guide

Substrate	Remark	CONCRETE PRIMER	DTE EPOXY Primer	Bonding Primer	EP PRIMER/ SEALER	Consult Sika
CONCRETE	(1)					
LIGHTWEIGHT STRUCTURAL CONCRETE	(1)					
CONCRETE, GYPSUM BASED ROOF BOARDS						
BRICK, STONE	(3)					
BITUMINOUS SUBSTRATE						
-asphalt, bituminous felts, bituminous coatings, granulated or smooth SBS & APP cap sheets	(2,3)					
SINGLE PLY ROOFING MEMBRANES						
-HYPALON, TPO, EPDM, PVC	(3)					
ROOF TILES (UNGLAZED)	(3,4)					
FIBERGLASS	(3)					
POLYURETHANE FOAM- sprayed or slab stock						
METALS						
-aluminum, galvanized, cast iron, cop- per, lead, brass, stainless steel, steel, zinc	(3)					
PRE-COATED METAL	(3)					
PAINTS						
- paints & coatings	(3)					
- aluminized solar reflective coatings	(3)					
WOOD - TIMBER & PLYWOOD	(5)					

(1) New cementitious substrates must be Portland base and be cured min. 14 days.

(2) The presence of volatiles may cause discoloration of Sikalastic if not properly primed.

(3) Surface evaluation and field adhesion testing.

(4) Glazed tile consult Sika.

(5) Pressure treated lumber consult Sika

# Detailing

Non-structural cracks up to 1/16 inch- Detail application not necessary. Apply embedment/base resin layer per below.

Non-structural cracks between 1/16 inch and 1/4 inch- Rout and seal with Sikaflex sealant. Apply 40-45 mil resin layer embedded with 3 inch Sika Flexitape Heavy centered over crack. Apply embedment/base resin layer per below.



<u>Cracks and joints between 1/4 inch and 1 inch-</u> Rout and seal with Sikaflex sealant. Apply bond breaker tape sufficient to span width of crack or joint followed by 40-45 mil resin layer embedded with 6 inch Sika Flexitape Heavy centered over crack or joint. Apply embedment/base resin layer by terminating Sika Reemat at edges of crack or joint overlapping Sika Flexitape Heavy a minimum of 2 inch on both sides.

Joints greater than 1 inch- Treat as expansion joint. Consult Sika for recommendations.

<u>Metal seams and plywood/coverboard joints-</u> Apply 40-45 mil resin layer embedded with 3 or 6 inch Sika Flexitape Heavy centered over seam. Apply embedment resin layer per below.

Transitions between dissimilar materials- Apply 40-45 mil resin layer embedded with Sika Flexitape Heavy centered over edge. Apply embedment resin layer per below.

## Membrane

# Embedment/Base Resin Layer with Sika Reemat Reinforcement

Mixing not required. Apply either Sikalastic 601 BC or Sikalastic 621 TC at the coverage rate in the RoofPro System Guide with a 1/2 inch nap phenolic resin core roller. Material can also be squeegee or spray applied, in which case it should be backrolled prior to embedding Sika Reemat. Place Sika Reemat in wet base resin layer overlapping seams a minimum of 2 inches (place frayed edge over cut edge of roll) and apply wet roller to topside to saturate completely. After approximately 5 minutes the binder will begin to dissolve allowing the fiber strands to conform to irregular surfaces. Do not over work once the fibers have conformed to the substrate. Allow to cure 12 hours at 70 degrees F and 50 % RH or until tack free before top resin layer. Keep clean and dry and apply top resin layer within 7 days. If window is exceeded clean with non-sudsing detergent and clean water rinse, and allow to dry prior to application of Sika Reactivation Primer.

# Top Resin Layer with Sika Reemat Reinforcement

Mixing not required. Apply Sikalastic 621 TC at the coverage rate in the RoofPro Systems Guide with a 1/2 inch nap phenolic resin core roller. Material can also be squeegee or spray applied, in which case it should also be backrolled. In the case of RoofPro 25 allow the first top resin layer to cure 12 hours at 70 degrees F and 50% RH or until tack free before applying second top resin layer. On top of the complete RoofPro system additional resin layers may be applied with aggregate for slip resistance - consult Sika for recommendations. Keep clean and dry and apply additional resin layers within 7 days. If window is exceeded clean with non-sudsing detergent and clean water rinse, and allow to dry prior to application of Sika Reactivation Primer.

Sikalastic RoofPro System Guide									
	RoofPro Metal	RoofPro 10	RoofPro 15	RoofPro 20	RoofPro 25				
Substrates	Qualifying Metals	Concrete or cementiti	Concrete or cementitious, metals, wood, single-ply or bituminous, spray foam, stone or tile						
Primer		Required - see Substrate Priming Guide							
Detailing	Sika Flexitape Heavy centered over seams, transitions and properly treated cracks and joints								
Reinforcement	Local with Sika Flexitape	Sika Reemat Standard Sika Reemat Premium embedded in base over entire surface							
601 BC (US)*		35 mils wet - 45 sf/gal.	45 mils wet - 35 sf/gal.						
621 TC (US)	20 mils wet - 80 sf/gal.	30 mils wet - 53 sf/gal.	30 mils wet - 53 sf/gal.	45 mils wet - 35 sf/gal.	45 mils wet - 35 sf/gal.				
621 TC (US)	20 mils wet - 80 sf/gal.	al. 30 mils wet - 53 sf/gal. 30 mils wet - 53 sf/gal.							
621 TC (US)					30 mils wet - 53 sf/gal.				
Total Film Thickness	32 mils dry	52 mils dry	59 mils dry 61 mils dry 84 mils dry						
* May be substituted with Sikalastic 621 TC (US)									

#### Wet on Wet Application with Sika Fleece Reinforcement

Mixing not required. To primed substrate apply two-thirds of the Sikalastic 621 TC specified in the RoofPro System Guide with a 1/2 inch nap phenolic resin core roller. Immediately place specified Sika Fleece into wet resin overlapping seams a minimum of 3" along the edge and 6" end-to-end. Apply wet roller to topside with light pressure to saturate fleece from bottom and ensure air pockets are completely removed. Immediately apply all of remaining one-third of Sikalastic 621 TC resin specified in the RoofPro System Guide to ensure even and complete fleece saturation from topside and uniform texture.

Sikalastic RoofPro System Guide with Sika Fleece						
	RoofPro 15	RoofPro 20	RoofPro 25			
Substrates	Concrete or cementitious, metals, wood, single-ply or bituminous, spray foam, stone or tile					
Primer	Required - see Substrate Priming Guide					
Detailing	Sika Flexitape Heavy centered over seams, transitions and properly treated cracks and joints					
Reinforcement	Sika Fleece 120 (US)	Sika Fleece 120 (US) Sika Fleece 140 (US) Sika Fleece 170 (US)				
621 TC (US)	70 mils wet - 23 sf/gal.     80 mils wet - 20 sf/gal.     100 mils wet - 16 sf/gal.					
Total film Thickness	57 mils dry	65 mils dry 81 mils dry				

# Aggregated or Flake Surfacing

Supplemental aggregate and flake surfacing is required for all applications that will experience direct foot traffic such as balconies, terraces, walkways, and plazas, and is recommended for areas that experience maintenance foot traffic. Supplemental aggregate surfacing is applied in a supplemental resin layer after the Sikalastic membrane has been installed and is not applied into the roofing/waterproofing membrane itself.

# Seed and Back Roll Option

The Seed and Backroll option is primarily intended for use for maintenance traffic-type applications where enhanced slip resistance is required.

Apply Sikalastic 621 TC resin at 15 mils wet film thickness to the installed, cured membrane system. While the supplemental resin application is still wet seed with kiln dried, iron free aggregate. Back roll the surface to encapsulate the aggregate in the Sikalastic resin.

# Full Broadcast and Seal Option

The Full Broadcast and Seal option is intended for use for applications where both enhanced slip resistance and physical protection of the roofing membrane is required.

Apply Sikalastic 621 TC resin at 15 mils wet film thickness to the installed, cured membrane system. While the supplemental resin application is still wet broadcast to rejection (full broadcast, beach) with kiln dried, iron free aggregate. Remove excess aggregate after cure. Seal with an additional coat of Sikalastic resin.

# **Decorative Quartz and Decorative Flake Options**

The Decorative Quartz and Decorative Flake options are intended for use for applications where enhanced slip resistance, physical protection of the roofing membrane, and a decorative element is required.

Apply Sikalastic 621 TC resin at 15 mils wet film thickness to the installed, cured membrane system. While the supplemental resin application is still wet broadcast to rejection (full broadcast, beach) with colored quartz aggregate or synthetic flakes. Remove excess aggregate/flakes after cure. Seal with a coat of Sikalastic 748 PA at 15 mils wet film thickness.

Decorative flakes can also be seeded at less than full broadcast quantities. Remove excess aggregate/ flakes after cure. Seal with a coat of Sikalastic 748 PA at 15 mils wet film thickness.

# Aggregate Selection

Use clean, rounded or semi-angular, oven dried quartz sand with a minimum hardness of 6.5 per the Moh's scale. It should be supplied in pre-packaged bags and free of metallic or other impurities. The following size gradations are recommended:

- 16-30 or 20-40 mesh for pedestrian traffic systems
- Sika DecoQuartz Blends or equivalent for Decorative Quartz systems

# **Flake Selection**

Use virgin vinyl flakes, supplied in pre-packaged bags and free from impurities. The following is recommended:

Sika DecoFlake Blends or equivalent for Decorative Flake systems

See Above
Remove liquid resin immediately with dry cloth. Once cured, resin can only be removed by mechanical means.
See Above
<ul> <li>To avoid dew point conditions during application, relative humidity must be no more than 95% and substrate temperature must be at least 5°F (3°C) above measured dew point temperatures.</li> <li>Minimum ambient and substrate temperature during application and curing of material is 36°F (2°C); maximum is 95°F (35°C). Surface temperatures must be no higher than 140°F (60°C). Frequent monitoring of ambient and substrate temperature should always be done when applying polyurethane resins. Note that low temperatures and low humidity will slow down the cure, and high temperatures and high humidity will accelerate it.</li> <li>Do not apply on substrates with moisture content greater than 4% by weight, measured by Tramex Concrete Moisture Encounter meter.</li> <li>Minimum age of concrete must be 28 days depending on curing and drying conditions.</li> <li>Do not store materials outdoors directly exposed to sunlight and moisture. Cover and protect materials with breathable type covers such as canvas tarpaulins to allow venting and protection from weather and moisture. Observe temperature storage and conditioning requirements.</li> <li>Do not apply to substrate surfaces where moisture vapor transmission will occur during application and cure. This condition may be checked using ASTM D 4263 (Polyethylene sheet method).</li> <li>Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Allow sufficient time for the substrate to dry after rain or inclement weather, as there is the potential for bonding problems.</li> <li>On substrates likely to exhibit outgassing apply during falling ambient and substrate temperature. If ap-</li> </ul>
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plied during rising temperature pinholing or blistering may occur.

- Use sunglasses with UV filter when applying highly reflective Sikalastic 621 TC White (RAL 9016).
- Do not use for indoor applications.
- Precautions should be taken to prevent odors and/or vapors from entering the building/structure, including but not limited to turning off and sealing air intake vents or other means of ingress for odors and/or vapors into the building/structure during product application and cure.
- Not recommended for direct exposure to heavy or frequent foot traffic without a supplemental aggregated or flake surfacing application.
- Do not apply cementitious products, such as tile mortar directly onto Sikalastic 601 BC (US) or 621 TC (US). See Sikalastic 624 WP Product Data Sheet.
- Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various product solutions). Surface irregularities may reflect through the cured system.
- When applying over existing coatings or membranes compatibility and adhesion testing and subsequent approval by Technical Services is required.
- Opening to traffic prior to cure may result in loss of aggregate or permanent staining and subsequent premature failure
- On grade concrete decks should not be covered with Sikalastic RoofPro membrane systems.
- Unvented metal pan, split/sandwich slab with encapsulated membrane and/or insulation, cinder fill decks, and lightweight insulating concrete deck overlays should not be covered with Sikalastic RoofPro systems without additional deck evaluation and subsequent approval by Technical Services.
- Do not subject to continuous immersion, i.e., fountains, ponds, pools, or interior of tanks.
- Not recommended for use over ceramic tile.

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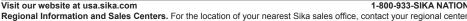
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Carretera Libre Celaya Km. 8.5 Fracc. Industrial Balvanera



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# Sikalastic[®] 624 WP Waterproofing System Liquid applied alkaline-resistant single component fully reinforced

system with fiberglass or polyester reinforcement

Description	Sikalastic 624 WP waterproofing syster moisture-triggered polyurethane resin less membrane and flashing system. T overburden), but Sikalastic 624 WP is U exposure waterproofing applications as Sika or Sikalastic Primer - Select prime Sikalastic 624 WP - Resin used for all s	with fiberglass mat or ypical applications ind JV resistant without pr s well. System compo er per substrate mater systems with both Ree	polyester fleece re clude a separate w rotection board and nents are: ial in accordance w mat fiberglass and	inforcement to cr earing course (ov d is therefore suita with Priming Guid	eate a seam verlayment c able for direc le	
	Sikalastic Reemat Premium - Chopped Sika Fleece 120, 140, 170 - Non-wove			arious woights		
Where to Use	<ul> <li>Sikalastic waterproofing systems, including Sikalastic Plaza Deck/PMA and Vegetated systems for both new construction and refurbishment</li> <li>Split-slab waterproofing - between slabs</li> <li>Vegetated deck waterproofing</li> <li>Plaza decks with concrete pavers, and asphalt or concrete paving stones in a sand bed</li> <li>Waterproofing under tile in a mortar bed</li> <li>Applications involving cementitious and asphalt pavement overlays</li> <li>Waterproofing around/beneath mechanical equipment</li> </ul>					
Advantages	<ul> <li>Proven technology with over 25 year</li> <li>Single component - no mixing and re</li> <li>Fully reinforced with highly conforma</li> <li>Integrated flashings utilizing same re</li> <li>Ideal for complex details and geome</li> <li>Moisture triggered chemistry that is in</li> <li>Highly elastic and crack bridging</li> <li>Seamless and fully adhered</li> <li>Vapor permeable</li> <li>UV resistant and non-yellowing</li> <li>Abrasion and chemical resistant</li> <li>Alkali resistant formulation</li> <li>Adheres to most common construction</li> </ul>	eady to use able Sika Reemat or S esin and reinforcemen try or when accessibi rapidly weatherproof a	ts lity is limited after application	ed.		
Approvals	Meets ASTM C836 Standard Specifica proofing Membrane for Use with Separ	tion for High Solids C	•		neric Water-	
	StorageSiProduct ConditioningCColor62Chemical BaseSiDensity (all values at +23° C)10Solids Content70Flash Point10VOC20Service Temperature-2Solar Reflectance (Initial)86SRI (Solar Reflectance Index - Initial)10Thermal Emittance0.	VARIATIONS DEPENDING I . SITE CONDITIONS AND C months in original, unope tore dry at 35-77°F (2-25 ondition material to 50-7 24 WP: White, Pearl Gra- ingle component, moistu 0.8 lbs/gal (1.3 kg/l) 0.9 % by volume / 78.9 % 07°F (42°C) 09 g/L 12 to 176°F (-30 to 80°C) 6.8% (ASTM C1549) (W 09 (ASTM E1980) (White 87 (ASTM C1371) (White	URING CONDITIONS. ened and undamaged °C). 7°F (10-25°C) before ay; custom colors ava re-triggered, aliphatic 6 by weight intermittent hite) e)	sealed containers. using for ease of a ilable with minimun polyurethane	pplication.	
	Reinforced Membrane Physical Properties - Ty Values	vpical ASTM Test Method	WP 20	WP 20		
	Reinforcement	-	Reemat Pre- mium	Sika Fleece 140		
	Breaking Strength, psi	D751 Proc. B	2450	1110	1	
	Elongation to Break, %	D751	10	78	1	
	Tear Strength, Ibf/in	D624	430	300	1	
	Static Puncture Resistance	D5602	>55 lbf	>55 lbf	1	
	Note: Date for other WP assemblies available	l	00.01	00121	1	
		· · ·			J	
ka®	PRIOR TO EACH USE OF ANY SIKA PRODUC INSTRUCTIONS ON THE PRODUCT'S MOST O SHEET WHICH ARE AVAILABLE ONLINE AT H PARTMENT AT 800.933.7452 NOTHING CONTAI TO READ AND FOLLOW THE WARNINGS AND	URRENT PRODUCT D TTP://USA.SIKA.COM/ NED IN ANY SIKA MAT	ATA SHEET, PRODU OR BY CALLING SI ERIALS RELIEVES 1	JCT LABEL AND S KA'S TECHNICAL THE USER OF THE	SAFETY DATA SERVICE DE OBLIGATIO	

RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.



Coverage Packaging	See Application below 5 gal. pails
Cure Mechanism	Moisture-triggered
Chemical Resistance	Strong resistance to a wide range of reagents, including paraffin, petrol, fuel oil, white spirit, acid rain, deter- gents and moderate solutions of acids and alkalis. Some low molecular weight alcohols can soften the mate- rial. Contact Technical Service for specific recomendations.
	Salt spray to ASTM B117 (1000 hours continuous exposure) and prohesion testing to ASTM G85-94: Annex A5 (1000 hours cyclic exposure)
How To Use	
Surface Preparation	See Application Below
Application	Substrate Evaluation
	Concrete and cementitious substrates
	New concrete shall be allowed to cure a minimum of 28 days. Concrete shall have a minimum compresive strength of 20.7 MPa (3000 psi) and exhibit a minimum tensile bond strength of 1.4 MPa (200 psi). time. More or sheet curing methods should be used, as opposed to the use of curing compounds, which may interfere with the bond of the membrane. Inspect the concrete, including upstands, and all areas should be hammer tested. Concrete must be suitably finished, preferably by wood float or steel pan. A power float finish is acceptable when the surface is prepared to avoid laitance (a tamped finish is not acceptable). The surface finish must be uniform and free from defects such as laitance, voids or honeycombing.
	Gypsum and Cement based sheathing
	Sheathing boards shall be clean, dry and dust free, and shall be properly secured to the structure. Loose, dam aged, or contaminated boards shall be removed and replaced.
	Brick and stone
	Mortar joints must be sound and preferably flush pointed.
	Asphalt
	Asphalt contains volatiles which can cause bleeding and slight non-detrimental staining. The asphalt must b carefully assessed for moisture and/or air entrapment, grade and surface finish.
	Bituminous felt
	Ensure that bituminous felt is firmly adhered or mechanically fixed to the substrate. Bituminous felt shall no contain badly degraded areas.
	Bituminous coatings
	Bituminous coatings shall not have sticky or mobile surfaces, volatile mastic coatings, or old coal tar coatings
	Metals
	Metals must be in sound condition.
	Wooden substrates
	Plywood and timber based decks must be in good condition, firmly adhered and mechanically fixed. All plywood should be identified as conforming to PS 1 for construction and industrial plywood by grade, APA (America Plywood Association) trademark, or equivalent. For maximum smoothness, EXT Type APA, Grade A-C should be used, and the "A" side should be positioned to receive the Sikalastic resin.
	Plywood decks to receive resin directly shall be at least 1/2 inch thick and attached and supported according t APA guidelines, using only non-rusting screw, spiral or coated nail type fasteners. A good practice would be t recess or counter sink fasteners 1/8 to 1/4 inch and fill with Sikaflex sealant. Suitable edge support to prever differential deflection between panels shall be provided. Panel edges shall be tongue and groove or supporte on solid blocking. Space panels 1/8 to 3/16 inch at panel ends.
	Paints and coatings
	Ensure the existing material is sound and firmly adhered.
	Existing Sikalastic system
	The existing Sikalastic system shall be soundly adhered to the substrate.
	Surface Preparation
	Concrete and cementitious substrates
	Cementitious or mineral based substrates must be prepared mechanically using abrasive blast cleaning of scarifying equipment to remove cement laitance and to achieve an open textured surface (CSP 3-5 per ICF guidelines). Loose friable material and weak concrete must be completely removed and surface defects such a blowholes and voids must be fully exposed. The amount of embedment coat required may increase over roug or highly porous surfaces.

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Repairs to the substrate, filling of joints, blowholes/voids and surface levelling must be carried out. Consult Sika for product recommendations based on project requirements. High spots must be removed by grinding or similar method.

Outgassing is a naturally occurring phenomenon of concrete that can produce pinholes in liquid applied materials. The concrete must be carefully assessed for moisture content, air entrapment, and surface finish prior to any waterproofing work. Particular requirements for priming must also be considered. Installing the primer and membrane either when the concrete temperature is falling or stable can reduce outgassing. It is generally beneficial, therefore, to apply the embedment coat in the late afternoon or evening.

# **Gypsum and Cement based sheathing**

Sheathing boards shall be clean, dry and dust free. Secure loose boards if in sound condition. Damaged or contaminated boards shall be removed and replaced.

# Brick and stone

Power wash and use biodegradeable non-sudsing detergent with clean water rinse as required.

# Asphalt

Power wash and use biodegradeable non-sudsing detergent with clean water rinse as required. All major cracks should be sealed to allow continuity of the Sikalastic system.

# Bituminous felt

Power wash and use biodegradeable non-sudsing detergent with clean water rinse as required. Treat blisters by star cutting and removing any underlying water. Allow to dry and re-adhere using suitable adhesive.

# Bituminous coatings

Remove any loose or degraded coatings.

### <u>Metals</u>

Ferrous metals should be thoroughly cleaned by grinding or blast cleaning prior to priming (SSPC-SP3 to nearwhite metal.)

Non-ferrous metals are prepared by removing any deposits of dust and oxidation and abrading to bright metal. Wire brushing can be used for soft metal such as lead. The surface must be clean and free from grease which, if present, must be removed with a solvent wipe or wash with detergent, rinse and dry.

# Wooden substrates

Timber and timber based decks require additional reinforcement such as the installation of plywood, approved insulation or cover board. Small timber protrusions and suitable decks may be treated directly, provided that the timber is of exterior quality, e.g., exterior grade plywood, etc. Fill joints flush with Sikaflex sealant.

# Paints/Coatings

Remove any loose or degraded coatings. Ensure the surface is clean and free from grease.

#### Sikaplan[®]/Sarnafil[®] membranes

Clean membranes with Sarna Cleaner (PVC membranes) and Sarnafil® T Clean (TPO membranes) prior to application of primer.

# **Existing Sikalastic Systems**

Clean the membrane using a water jet at approximately 140bar (2000 psi) and biodegradeable non-sudsing detergent with clean water rinse. Allow to dry.

# Application

# <u>Priming</u>

Refer to Priming Guide to select primer for properly evaluated and prepared substrate. Refer to separate primer Product Data Sheet for for application methods, coverage rates, cure times and recoat windows. Always allow primer to cure thoroughly before applying detail or base resin layer.

Substrate	Remark	Con- crete Primer	DTE Epoxy Primer	Bonding Primer	EP Primer/ Sealer	Consult Sika
CONCRETE	(1)					
LIGHTWEIGHT CONCRETE	(1)					
BRICK, STONE	(3)					
BITUMINOUS SUBSTRATE						
-asphalt, bitumininous felts, bituminous coatings, granulated or smooth SBS & APP cap sheets	(2,3)					



ROOF TILES (UNGLAZED)	(3,4)			
METALS				
-aluminum, galvanized, cast iron, copper, lead, brass, stainless steel, steel, zinc	(3)		<b></b>	
PRE-COATED METAL	(3)			
PAINTS				
-paints & coatings	(3)			
-aluminized solar reflective coatings	(3)			
WOOD- TIMBER & PLYWOOD	(3)			

(1) New cementitious substrates must be Portland base and be cured min. 28 days.

(2) The presence of volatiles may cause discoloration of Sikalastic if not properly primed.

(3) Surface evaluation and filed adhesion testing

(4) Glazed tile consult Sika

(5) Pressure treated lumber consult Sika

# **Detailing**

Non-structural cracks up to 1/16 inch - Detail application not necessary. Apply embedment/base resin layer per below.

**Non-structural cracks between 1/16 inch and 1/4 inch -** Rout and seal with Sikaflex sealant. Apply 40-45 mil resin layer embedded with 3 inch Sika Flexitape Heavy centered over crack. Apply embedment/base resin layer per below.

**Cracks and joints between 1/4 inch and 1 inch -** Rout and seal with Sikaflex sealant. Apply bond breaker tape sufficient to span width of crack or joint followed by 40-45 mil resin layer embedded with 6 inch Sika Flexitape Heavy centered over crack or joint. Apply embedment/base resin layer by terminating Sika Reemat at edges of crack or joint overlapping Sika Flexitape Heavy a minimum of 2 inch on both sides.

Joints greater than 1 inch - Treat as expansion joint. Consult Sika for recommendations.

**Metal seams and plywood/coverboard joints-** Apply 40-45 mil resin layer embedded with 3 or 6 inch Sika Flexitape Heavy centered over seam. Apply embedment resin layer per below.

**Transitions between dissimilar materials -** Apply 40-45 mil resin layer embedded with Sika Flexitape Heavy centered over edge. Apply embedment resin layer per below.

# Embedment/Base Resin Layer with Sika Reemat Reinforcement

Mixing not required. Apply Sikalastic 624 WP per WP System Guide at 45 mils with a 1/2 inch nap phenolic resin core roller. Material can also be squeegee or spray applied, in which case it should be backrolled prior to embedding Sika Reemat. Place Sika Reemat in wet base resin layer overlapping seams a minimum of 2 inches (place frayed edge over cut edge of roll) and apply wet roller to topside to saturate completely. After approximately 5 minutes the binder will begin to dissolve allowing the fiber strands to conform to irregular surfaces. Do not over work once the fibers have conformed to the substrate. Allow to cure 12 hours at 70°F and 50 % RH or until tack free before top resin layer. Keep clean and dry and apply top resin layer within 7 days. If window is exceeded clean with non-sudsing detergent and clean water rinse, and allow to dry prior to application of Sika Reactivation Primer.

# Top Resin Layer with Sika Reemat Reinforcement

Mixing not required. Apply Sikalastic 624 WP at the coverage rate in the AR System Guide with a 1/2 inch nap phenolic resin core roller. Material can also be squeegee or spray applied, in which case it should also be backrolled. In the case of RoofPro 25 allow the first top resin layer to cure 12 hours at 70°F and 50% RH or until tack free before applying second top resin layer. On top of the complete RoofPro system additional resin layers may be applied with aggregate for slip resistance - consult Sika for recommendations. Keep clean and dry and apply additional resin layers within 7 days. If window is exceeded clean with non-sudsing detergent and clean water rinse, and allow to dry prior to application of Sika Reactivation Primer.

5	Sikalastic RoofPro WP System Guide with Sika Reemat						
	RoofPro 15 WP	RoofPro 20 WP	RoofPro 25 WP				
Substrate	Concrete or Cementitious, metals, wood, single-ply pr bituminous stone						
Primer	F	Required - see Substrate Priming Guide					
Detailing	Sika Flexitape Heavy centered over seams, transitions and properly treated cracks and joints						
Reinforcement	Sika Reemat Premium embedded in base resin layer over entire surface						
Sikalastic 624 WP Base Layer	45 mils wet - 35 sf/gal.	45 mils wet - 35 sf/gal. 45 mils wet - 35					
Sikalastic 624 WP Top Layer	30 mils wet - 53 sf/gal.	mils wet - 53 sf/gal. 40 mils wet - 40 sf/gal. 30 mils wet -					
Sikalastic 624 WP Top Layer			30 mils wet - 53 sf/gal.				
Total Film Thickness	53 mils dry	60 mils dry	75 mils dry				



## Wet on Wet Application with Sika Fleece Reinforcement

Mixing not required. To primed substrate apply two-thirds of the Sikalastic 624 WP specified in the WP System Guide with a 1/2 inch nap phenolic resin core roller. Immediately place specified Sika Fleece into wet resin overlapping seams a minimum of 3" along the edge and 6" end-to-end. Apply wet roller to topside with light pressure to saturate fleece from bottom and ensure air pockets are completely removed. Immediately apply all of remaining one-third of Sikalastic 624 WP resin specified in the WP System Guide to ensure even and complete fleece saturation from topside and uniform texture.

Sikalastic RoofPro WP System Guide with Sika Fleece						
	RoofPro 15 WP	RoofPro 15 WP RoofPro 20 WP RoofPro 2				
Substrate	Concrete or Cementitious, metals, wood, single-ply pr bituminous stone					
Primer	Required - see Substrate Priming Guide					
Detailing	Sika Flexitape Heavy centered over seams, transitions and properly treated cracks and joints					
Reinforcement	Sika Fleece 120 (US)	Sika Fleece 140 (US)	Sika Fleece 170 (US)			
Sikalastic 624 WP	70 mils wet - 23 sf/gal. 85 mils wet - 19 sf/gal. 105 mils wet - 1		105 mils wet - 15 sf/gal			
Total Film Thickness	50 mils dry	60 mils dry 75 mils dry				

# **Overburden Application**

Sikalastic 624 WP membrane may be used as the waterproofing layer under a wide range of overburden materials. Depending on the overburden type, different surfacing, drainage, and protection layers may be required.

#### **Protected Membrane Assemblies**

Install Sika 420 Drain Mat over the Sikalastic 624 WP membrane prior to the installation of the extruded polystyrene insulation layer. No aggregated membrane surfacing is required.

# **Concrete Pavers with Pedestal Supports**

Install Sika 420 Drain Mat over the Sikalastic 624 WP membrane to provide additional protection of the membrane under the pedestal supports.

# Tile Adhered in a Cementitious Thin-Set Adhesive

A full aggregate broadcast surfacing is required to provide an adhesion key for the tile adhesive. Apply a supplemental 15 wet mils of Sikalastic 624 WP resin, followed by a full broadcast of 16-30 or 12-20 kiln-dried sand to refusal, typically 40-50 lbs./100 sf. Remove all loose sand once resin has cured. Do not seal the aggregated surface.

# Tile in a Cementitious Setting Bed

Install Sika 720 Drain Mat over the Sikalastic 624 WP membrane prior to installation of the cementitious setting bed, which is typically 1-1/2"-3" in thickness, and which may be sloped to create positive drainage. Secure the Sika 720 Drain Mat to the Sikalastic 624 WP membrane as required to prevent shifting during setting bed installation by spot-adhering with Sikaflex 11 FC. Bi-level drains should be installed to provide drainage capability at the membrane level as well as drainage of the finished surface.

# Concrete/Asphalt Pavers in a Sand Setting Bed

Install Sika 420 Drain Mat over the Sikalastic 624 WP membrane prior to installation of the sand setting bed, which is typically either graded silica sand or a mix of sand and asphalt. Secure the Sika 420 Drain Mat to the Sikalastic 624 WP membrane as required to prevent shifting during setting bed installation by spot-adhering with Sikaflex 11 FC. Bi-level drains should be installed to provide drainage capability at the membrane level as well as drainage of the finished surface.

# Vegetation and Growing Media/Soil

The selection of a vegetated overburden assembly is typically project specific and specified by a qualified design professional. At a minimum, install Sika GRS Drain Mat over the Sikalastic 624 WP membrane prior to application of all other overburden components. Secure the Sika GRS Drain Mat to the Sikalastic 624 WP membrane as required to prevent shifting during vegetative overburden assembly components by spot-adhering with Sikaflex 11 FC. Bi-level drains should be installed to provide drainage capability at the membrane level as well as drainage at grade level.

# **Concrete Pavement**

Install Sika 1000 Drain Mat over the Sikalastic 624 WP membrane prior to application of the fresh concrete. Secure the Sika 1000 Drain Mat to the Sikalastic 624 WP membrane as required to prevent shifting during concrete placement by spot-adhering with Sikaflex 11 FC. Bi-level drains should be installed to provide drainage capability at the membrane level as well as drainage of the finished surface.

# Asphalt Pavement

Install Sika 1000 Drain Mat over the Sikalastic 624 WP membrane, followed by the installation of a ¼" thick asphalt protection board. Overlap the protection board at all end and side laps by 2" min. Secure the Sika 1000 Drain Mat and asphalt protection board as required to prevent shifting during asphalt pavement placement by spot-adhering with Sikaflex 11 FC. Bi-level drains should be installed to provide drainage capability at the membrane level as well as drainage of the finished surface.



Tooling and Finishing	See Above
Removal	Remove liquid resin immediately with dry cloth. Once cured, resin can be removed by mechanical means.
Over Painting	See Above
Limitations	<ul> <li>To avoid dew point conditions during application, relative humidity must be no more than 95% and substrate temperature must be at least 5°F (3°C) above measured dew point temperatures.</li> <li>Minimum ambient and substrate temperature should always be done when applying polyurethane resins. Note that low temperatures and low humidity will slow down the cure, and high temperatures and high humidity will accelerate it.</li> <li>Do not apply on substrates with moisture content greater than 4% by weight, measured by Tramex Concrete Moisture Encounter meter.</li> <li>Minimum age of concrete must be 28 days depending on curing and drying conditions.</li> <li>Do not store materials outdoors directly exposed to sunlight and moisture. Cover and protect materials with breathable type covers such as canvas tarpaulins to allow venting and protection from weather and moisture. Observe temperatures storage and conditioning requirements.</li> <li>Do not apply to substrate surfaces where moisture vapor transmission will occur during application and cure. This condition may be checked using ASTM D 4263 (Polyethylene sheet method).</li> <li>Substrate must be dry prior to application. Do not apply to substrate to yr after rain or inclement weather, as there is the potential for bonding problems</li> <li>On so not use for indoor applications without adequate ventilation during application.</li> <li>Precautions should be taken to prevent dors and/or vapors from entering the building/structure, including but not limited to turing off ad sealing air intake vents or other means of ingress for dors and/or vapor into the building/structure, including but receives and conditions). Sufface irregularities may reflect through the cured system.</li> <li>Mon to thin with solve a level surface must be or vapor strains and substrate temperature. If applie during rising temperature inholing or bilistering may occur.</li> <li>Do not use for indoor applications without adequate ventilation during application.</li> <li>Precautions should</li></ul>

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KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY.

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart-ment at 800.933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.

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Regional Information and Sales Centers. For the location of your nearest Sika sales office, contact your regional center. Sika Mexicana S.A. de C.V. Carretera Libre Celaya Km. 8.5





Product Data Sheet Edition 6.29.2016 Identification no. Sikalastic®-641 Roofing System



# Sikalastic[®]-641 Roofing System Liquid-applied single component fully reinforced system with

fiberglass or polyester reinforcement

Description	resins with fiberglass mat or poly System components are: Sika or Sikalastic Primer - Select p Sikalastic-641 - Sag and run-resis reinforcement Sikalastic Reemat Premium - Chop	Sika or Sikalastic Primer - Select primer per substrate material in accordance with Priming Guide Sikalastic-641 - Sag and run-resistant resin used for all systems with both Reemat fiberglass and polyester fleece reinforcement Sikalastic Reemat Premium - Chopped strand fiberglass mat Sika Fleece 120, 140, 170 - Non-woven, needle-punched polyester fleece in various weights						
Where to Use	<ul> <li>Sikalastic RoofPro 10, 15, 20 PMA, and Vegetated systems</li> <li>Ideal for roofs displaying com</li> <li>Effective and cost efficient life</li> <li>Highly reflective Sikalastic-642</li> <li>Suitable for use for application</li> </ul>	<ul> <li>Sikalastic RoofPro 10, 15, 20 and 25 year systems, including Sikalastic RoofPro Built Up, Direct, Plaza Deck/ PMA, and Vegetated systems for both new construction and refurbishment</li> <li>Ideal for roofs displaying complex details and geometry or when accessibility is limited</li> <li>Effective and cost efficient life cycle extension of existing roofs</li> <li>Highly reflective Sikalastic-641 in White suitable for cool roofs and solar roof assemblies.</li> </ul>						
Advantages	<ul> <li>Single component - no mixing</li> <li>Fully reinforced with highly c</li> <li>Moisture triggered chemistry</li> <li>Low odor formulation</li> <li>Highly elastic and crack bridg</li> <li>Seamless and fully adhered</li> <li>Vapor permeable</li> <li>UV resistant and non-yellowi</li> <li>Abrasion and chemical resistation</li> </ul>	<ul> <li>Proven technology with over 25 year track record</li> <li>Single component - no mixing and ready to use</li> <li>Fully reinforced with highly conformable Sika Reemat or Sika Fleece</li> <li>Moisture triggered chemistry that is rapidly weatherproof after application</li> <li>Low odor formulation</li> <li>Highly elastic and crack bridging</li> <li>Seamless and fully adhered</li> <li>Vapor permeable</li> <li>UV resistant and non-yellowing</li> <li>Abrasion and chemical resistant</li> </ul>						
Approvals	<ul> <li>FM Approval Standard 4470 for Class 1 Roof Covers - Pending</li> <li>Meets ASTM D7311-07: Standard Specification for Liquid-Applied, Single-Pack, Moisture-Triggered, Aliphatic Polyurethane Roofing Membrane.</li> </ul>							
Coverage	See Application Below							
Packaging	5 gal. pails							
Cure Mechanism	Moisture triggered		<u></u>					
Chemical Resistance	Strong resistance to a wide range gents and moderate solutions of Contact Technical Service for spec	acids and alkalis. Some	low molecular wei					
	Typical Data (Material and cu RESULTS MAY DIFFER BASED UPON STATISTICAL APPLICATION METHODS, TEST METHODS, ACTU Shelf Life Storage Conditions Product Conditioning Colors Chemical Base Density (all values at +23 degrees C) Solids Content Flash Point VOC Service Temperature Solar Reflectance (Initial) SRI (Solar Reflectance Index - Initial) Thermal Emittance	VARIATIONS DEPENDING UPON M AL SITE CONDITIONS AND CURING 12 months Store dry z Condition White, Pez available w Single com 11.9 lbs/gz 89.0 % by 199°F (93° 100 g/L -22 to 176 61.0% (AST	IXING METHODS AND ÉQUIPM CONDITIONS. in original, unopened and it 35-77°F (2-25°C). material to 50-77°F (10-25 irl Gray, Steel Gray, Mushr vith minimum order uponent, moisture-triggere al (1.43 kg/l) volume /92 % by weight	d undamaged sealed co 5°C) before using for ea: oom, Copper Green; cu ed, aliphatic polyuretha ed, aliphatic polyuretha ent .6% (ASTM C1549)(White)	se of application. stom colors ne			
	Physical Properties – Typical Values	ASTM Test Method	RoofPro 20	RoofPro 20				
			Reemat Premium	Sika Fleece 140				
	Reinforcement		1					
	Breaking Strength, psi	D751 Proc. B	1030	900				
	Breaking Strength, psi	D751 Proc. B	1030 21	900 82				
		D751	+					
	Breaking Strength, psi Elongation to Break, % Tear Strength, lbf/in	D751 D624	21 300	82 200				
	Breaking Strength, psi Elongation to Break, %	D751 D624 D5602	21	82				

# How to Use

Surface Preparation

Application

See Application below

# Substrate Evaluation

#### Concrete and cementitious substrates

New concrete shall be allowed to cure a minimum of 28 days. Concrete shall have a minimum compressive strength of 20.7 MPa (3000 psi) and exhibit a minimum tensile bond strength of 1.4 MPa (200 psi). time. Moist or sheet curing methods should be used, as opposed to the use of curing compounds, which may interfere with the bond of the membrane. Inspect the concrete, including upstands, and all areas should be hammer tested. Concrete must be suitably finished, preferably by wood float or steel pan. A power float finish is acceptable where the surface is prepared to avoid laitance (a tamped finish is not acceptable). The surface finish must be uniform and free from defects such as laitance, voids or honeycombing.

# **Gypsum and Cement based sheathing**

Sheathing boards shall be clean, dry and dust free, and shall be properly secured to the structure. Loose, damaged, or contaminated boards shall be removed and replaced.

#### Brick and stone

Mortar joints must be sound and preferably flush pointed.

# **Asphalt**

Asphalt contains volatiles which can cause bleeding and slight non-detrimental staining. The asphalt must be carefully assessed for moisture and/or air entrapment, grade and surface finish.

#### **Bituminous felt**

Ensure that bituminous felt is firmly adhered or mechanically fixed to the substrate. Bituminous felt shall not contain badly degraded areas.

**Bituminous coatings** 

Bituminous coatings shall not have sticky or mobile surfaces, volatile mastic coatings, or old coal tar coatings.

#### <u>Metals</u>

Metals must be in sound condition.

## Wooden substrates

Plywood and timber based roof decks must be in good condition, firmly adhered and mechanically fixed. All plywood should be identified as conforming to PS 1 for construction and industrial plywood by grade, APA (American Plywood Association) trademark, or equivalent. For maximum smoothness, EXT Type APA, Grade A-C should be used, and the "A" side should be positioned to receive the Sikalastic resin.

Plywood decks to receive resin directly shall be at least 1/2 inch thick and attached and supported according to APA guidelines, using only non-rusting screw, spiral or coated nail type fasteners. A good practice would be to recess or counter sink fasteners 1/8 to 1/4 inch and fill with Sikaflex sealant. Suitable edge support to prevent differential deflection between panels shall be provided. Panel edges shall be tongue and groove or supported on solid blocking. Space panels 1/8 to 3/16 inch at panel ends.

#### Paints and coatings

Ensure the existing material is sound and firmly adhered.

#### Existing Sikalastic RoofPro System

The existing Sikalastic RoofPro System shall be soundly adhered to the substrate.

#### Surface Preparation

## Concrete and cementitious substrates

Cementitious or mineral based substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and to achieve an open textured surface (CSP 3-5 per ICRI guidelines). Loose friable material and weak concrete must be completely removed and surface defects such as blowholes and voids must be fully exposed. The amount of embedment coat required may increase over rough or highly porous surfaces.

Repairs to the substrate, filling of joints, blowholes/voids and surface levelling must be carried out. Consult Sika for product recommendations based on project requirements. High spots must be removed by grinding or similar method.

Outgassing is a naturally occurring phenomenon of concrete that can produce pinholes in liquid applied materials. The concrete must be carefully assessed for moisture content, air entrapment, and surface finish prior to any roofing work. Particular requirements for priming must also be considered. Installing the primer and membrane either when the concrete temperature is falling or stable can reduce outgassing. It is generally beneficial, therefore, to apply the primer and embedment coat in the late afternoon or evening.

#### **Gypsum and Cement based sheathing**

Sheathing boards shall be clean, dry and dust free. Secure loose boards if in sound condition. Damaged or contaminated boards shall be removed and replaced.

#### Brick and stone

Power wash and use biodegradeable non-sudsing detergent with clean water rinse as required.



#### <u>Asphalt</u>

Power wash and use biodegradeable non-sudsing detergent with clean water rinse as required. All major cracks should be sealed to allow continuity of the Sikalastic RoofPro system.

#### Bituminous felt

Power wash and use biodegradeable non-sudsing detergent with clean water rinse as required. Treat blisters by star cutting and removing any underlying water. Allow to dry and re-adhere using suitable adhesive.

#### **Bituminous coatings**

Remove any loose or degraded coatings.

# <u>Metals</u>

Ferrous metals should be thoroughly cleaned by grinding or blast cleaning prior to priming (SSPC-SP3 to near-white metal) .

Non-ferrous metals are prepared by removing any deposits of dust and oxidation and abrading to bright metal. Wire brushing can be used for soft metal such as lead. The surface must be clean and free from grease which, if present, must be removed with a solvent wipe or wash with detergent, rinse and dry.

#### Wooden substrates

Timber and timber based roof decks require additional reinforcement such as the installation of plywood, approved insulation or cover board. Small timber protrusions and suitable decks may be treated directly, provided that the timber is of exterior quality, e.g. plywood. Fill joints flush with Sikaflex sealant.

#### Paints/Coatings

Remove any loose or degraded coatings. Ensure the surface is clean and free from grease.

#### Sikaplan[®]/Sarnafil[®] membranes

Clean membranes with Sarna Cleaner (PVC membranes) and Sarnafil® T Clean (TPO membranes) prior to application of primer.

#### Existing Sikalastic RoofPro Systems

Clean the membrane using a water jet at approximately 140bar (2000 psi) and biodegradeable non-sudsing detergent with clean water rinse. Allow to dry.

#### Application

#### Priming

Refer to Priming Guide to select primer for properly evaluated and prepared substrate. Refer to separate primer Product Data Sheet for application methods, coverage rates, cure times and recoat windows. Always allow primer to cure thoroughly before applying detail or base resin layer.

# Sikalastic RoofPro Priming Guide

Substrate	Remark	CONCRETE PRIMER	DTE EPOXY Primer	EP PRIMER/ SEALER	Consult Sika
CONCRETE	(1)				
LIGHTWEIGHT STRUCTURAL CONCRETE	(1)				
CEMENT, GYPSUM BASED ROOF BOARDS					
BRICK, STONE	(3)				
BITUMINOUS SUBSTRATE					
-asphalt, bituminous felts, bituminous coat- ings, granulated or smooth SBS & APP cap sheets	(2,3)				
SINGLE PLY ROOFING MEMBRANES					
-HYPALON, TPO, EPDM, PVC	(3)				
ROOF TILES (UNGLAZED)	(3,4)				
FIBERGLASS	(3)				
POLYURETHANE FOAM- sprayed or slab stock					
METALS					
-aluminum, galvanized, cast iron, copper, lead, brass, stainless steel, steel, zinc	(3)				
PRE-COATED METAL	(3)				
PAINTS					



- paints & coatings	(3)		
- aluminized solar reflective coatings	(3)		
WOOD - TIMBER & PLYWOOD	(5)		

(1) New cementitious substrates must be Portland base and be cured min. 14 days.

(2) The presence of volatiles may cause discoloration of Sikalastic if not properly primed.

(3) Surface evaluation and field adhesion testing.

(4) Glazed tile consult Sika.

(5) Pressure treated lumber consult Sika

# Detailing

Non-structural cracks up to 1/16 inch - Detail application not necessary. Apply embedment/base resin layer per below.

Non-structural cracks between 1/16 inch and 1/4 inch - Rout and seal with Sikaflex sealant. Apply 40-45 mil resin layer embedded with 3 inch Sika Flexitape Heavy centered over crack. Apply embedment/base resin layer per below.

**Cracks and joints between 1/4 inch and 1 inch** - Rout and seal with Sikaflex sealant. Apply bond breaker tape sufficient to span width of crack or joint followed by 40-45 mil resin layer embedded with 6 inch Sika Flexitape Heavy centered over crack or joint. Apply embedment/base resin layer by terminating Sika Reemat/Fleece at edges of crack or joint overlapping Sika Flexitape Heavy a minimum of 2 inches on both sides.

Joints greater than 1 inch - Treat as expansion joint. Consult Sika for recommendations.

Metal seams and plywood/coverboard joints- Apply 40-45 mil resin layer embedded with 3 or 6 inch Sika Flexitape Heavy centered over seam. Apply embedment/ base resin layer per below.

Transitions between dissimilar materials - Apply 40-45 mil resin layer embedded with Sika Flexitape Heavy centered over edge. Apply embedment/ base resin layer per below.

#### Embedment/Base Resin Layer with Sika Reemat Reinforcement

Mixing not required. Apply Sikalastic-641 at the coverage rate in the RoofPro System Guide with a 1/2 inch nap phenolic resin core roller. Material can also be squeegee or spray applied, in which case it should be backrolled prior to embedding Sika Reemat. Place Sika Reemat in wet base resin layer overlapping seams a minimum of 2 inches (place frayed edge over cut edge of roll) and apply wet roller to topside to saturate completely. After approximately 5 minutes the binder will begin to dissolve allowing the fiber strands to conform to irregular surfaces. Do not over work once the fibers have conformed to the substrate. Allow to cure 12 hours at 70 degrees F and 50 % RH or until tack free before top resin layer. Keep clean and dry and apply top resin layer within 7 days. If window is exceeded clean with non-sudsing detergent and clean water rinse, and allow to dry prior to application of Sika Reactivation Primer.

#### Top Resin Layer with Sika Reemat Reinforcement

Mixing not required. Apply Sikalastic-641 at the coverage rate in the RoofPro System Guide with a 1/2 inch nap phenolic resin core roller. Material can also be squeegee or spray applied, in which case it should also be backrolled. In the case of RoofPro 25 allow the first top resin layer to cure 12 hours at 70 degrees F and 50% RH or until tack free before applying second top resin layer. On top of the complete RoofPro system additional resin layers may be applied with aggregate for slip resistance - consult Sika for recommendations. Keep clean and dry and apply additional resin layers within 7 days. If window is exceeded clean with non-sudsing detergent and clean water rinse, and allow to dry prior to application of Sika Reactivation Primer.

Sikalastic RoofPro-641 System Guide with Sika Reemat					
	RoofPro 10 RoofPro 15 RoofPro 20 RoofPro 25				
Substrates	Concrete o	or cementitious, metals, w	oods, single-ply or bitumir	nous, stone	
Primer		Required - see Subs	trate Priming Guide		
Detailing	Sika Flexitape Heavy centered over seams, transistions and properly treated cracks and joints				
Reinforcement	Sika Reemat Standard Sika Reemat Premium embedded in base resin layer over entire surface				
Sikalastic-641 Base Layer	30 mils wet - 53 sf/gal.	30 mils wet - 53 sf/gal. 50 mils wet - 32 sf/gal. 50 mils wet - 32 sf/gal. 50 mils wet - 32 sf/gal.			
Sikalastic-641 Top Layer	30 mils wet - 53 sf/gal.	0 mils wet - 53 sf/gal. 20 mils wet - 80 sf/gal. 30 mils wet - 53 sf/gal. 23 mils wet - 69 sf/g			
Sikalastic-641 Top Layer	23 mils wet - 69 sf/g				
Total Film Thickness	53 mils dry	B mils dry 62 mils dry 71 mils dry 85 mils dry			
Note: Coverage rates provided are optimal and are not guaranteed - coverage rates will vary depending on temperature, sur-					

face roughness and porosity, aggregate selection and embedment, and application technique.

#### Wet on Wet Application with Sika Fleece Reinforcement

Mixing not required. To primed substrate apply two-thirds of the Sikalastic-641 specified in the RoofPro System Guide with a 1/2 inch nap phenolic resin core roller. Immediately place specified Sika Fleece into wet resin overlapping seams a minimum of 3" along the edge and 6" end-to-end. Apply wet roller to topside with light pressure to saturate fleece from bottom and ensure air pockets are completely removed. Immediately apply all of remaining one-third of Sikalastic 641 resin specified in the RoofPro System Guide to ensure even and complete fleece saturation from topside and uniform texture.



Sikalastic RoofPro 641 System Guide with Fleece						
	RoofPro 15	RoofPro 15 RoofPro 20 RoofPro 25				
Substrates	Concrete or cemer	Concrete or cementitious, metals, woods, single-ply or bituminous, stone				
Primer	Required - see Substrate Priming Guide					
Detailing	Sika Flexitape Heavy centere	Sika Flexitape Heavy centered over seams, transistions and properly treated cracks and joints				
Reinforcement	Sika Fleece 120 (US)	Sika Fleece 140 (US)	Sika Fleece 170 (US)			
Sikalastic 641	70 mils wet - 25 sf/gal.	80 mils wet - 20 sf/gal.	95 mils wet- 16 sf/gal.			
Total Film Thickness	62 mils dry 71 mils dry 84 mils dry					
	tale of a second transformed as a second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec		and the second second second second second			

Note: Coverage rates provided are optimal and are not guaranteed - coverage rates will vary depending on temperature, surface roughness and porosity, aggregate selection and embedment, and application technique.

#### Aggregated or Flake Surfacing

Supplemental aggregate and flake surfacing is required for all applications that will experience direct foot traffic such as balconies, terraces, walkways, and plazas, and is recommended for areas that experience maintenance foot traffic. Supplemental aggregate surfacing is applied in a supplemental resin layer after the Sikalastic membrane has been installed and is not applied into the roofing/waterproofing membrane itself.

#### Seed and Back Roll Option

The Seed and Backroll option is primarily intended for use for maintenance traffic-type applications where enhanced slip resistance is required.

Apply Sikalastic 641 Lo-VOC resin at 15 mils wet film thickness to the installed, cured membrane system. While the supplemental resin application is still wet seed with kiln dried, iron free aggregate. Back roll the surface to encapsulate the aggregate in the Sikalastic resin.

#### Full Broadcast and Seal Option

The Full Broadcast and Seal option is intended for use for applications where both enhanced slip resistance and physical protection of the roofing membrane is required.

Apply Sikalastic 641 Lo-VOC resin at 15 mils wet film thickness to the installed, cured membrane system. While the supplemental resin application is still wet broadcast to rejection (full broadcast, beach) with kiln dried, iron free aggregate. Remove excess aggregate after cure. Seal with an additional coat of Sikalastic resin.

#### **Decorative Quartz and Decorative Flake Options**

The Decorative Quartz and Decorative Flake options are intended for use for applications where enhanced slip resistance, physical protection of the roofing membrane, and a decorative element is required.

Apply Sikalastic 641 Lo-VOC resin at 15 mils wet film thickness to the installed, cured membrane system. While the supplemental resin application is still wet broadcast to rejection (full broadcast, beach) with colored quartz aggregate or synthetic flakes. Remove excess aggregate/flakes after cure. Seal with a coat of Sikalastic 748 PA at 15 mils wet film thickness.

Decorative flakes can also be seeded at less than full broadcast quantities. Remove excess aggregate/flakes after cure. Seal with a coat of Sikalastic 748 PA at 15 mils wet film thickness.

#### Aggregate Selection

Use clean, rounded or semi-angular, oven dried quartz sand with a minimum hardness of 6.5 per the Moh's scale. It should be supplied in pre-packaged bags and free of metallic or other impurities. The following size gradations are recommended:

- 16-30 or 20-40 mesh for pedestrian traffic systems
- Sika DecoQuartz Blends or equivalent for Decorative Quartz systems

#### **Flake Selection**

Use virgin vinyl flakes, supplied in pre-packaged bags and free from impurities. The following is recommended:

Tooling & Finishing	See Above
Removal	Remove liquid resin immediately with dry cloth. Once cured, resin can only be removed by mechanical means.
Over Painting	See Above.
Limitations	<ul> <li>To avoid dew point conditions during application, relative humidity must be no more than 95% and substrate temperature must be at least 5°F (3°C) above measured dew point temperatures.</li> <li>Minimum ambient and substrate temperature during application and curing of material is 36 degrees F (2°C); maximum is 95°F (35°C). Surface temperatures must be no higher than 140°F (60°C). Frequent monitoring of ambient and substrate temperature should always be done when applying polyurethane resins. Note that low temperatures and low humidity will slow down the cure, and high temperatures and high humidity will accelerate it.</li> <li>Do not apply on substrates with moisture content greater than 4% by weight, measured by Tramex Concrete Moisture Encounter meter.</li> </ul>
	RIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND STRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA

- Minimum age of concrete must be 28 days depending on curing and drying conditions.
- Do not thin with solvents.
- Do not store materials outdoors directly exposed to sunlight and moisture. Cover and protect materials with breathable type covers such as canvas tarpaulins to allow venting and protection from weather and moisture. Observe temperature storage and conditioning requirements.
- Do not apply to substrate surfaces where moisture vapor transmission will occur during application and cure. This condition may be checked using ASTM D 4263 (Polyethylene sheet method).
- Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Allow sufficient time for the substrate to dry after rain or inclement weather, as there is the potential for bonding problems.
- On substrates likely to exhibit outgassing apply during falling ambient and substrate temperature. If applied during rising temperature pinholing or blistering may occur.
- Use sunglasses with UV filter when applying highly reflective Sikalastic-641 White.
- Do not use for indoor applications unless sufficient air flow and ventilation are provided to prevent odors and/or vapors from leaving the immediate work area.
- Precautions should be taken to prevent odors and/or vapors from entering the building/structure, including but not limited to turning off and sealing air intake vents or other means of ingress for odors and/or vapors into the building/structure during product application and cure.
- Not recommended for direct exposure to heavy or frequent foot traffic.
- Do not apply cementitious products, such as tile mortar directly onto Sikalastic-641. See Sikalastic 624 WP Product Data Sheet.
- Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various product solutions). Surface irregularities may reflect through the cured system.
- When applying over existing coatings or membranes compatibility and adhesion testing and subsequent ap proval by Technical Services is required.
- Opening to traffic prior to cure may result in loss of aggregate or permanent staining and subsequent premature failure.
- On grade concrete decks should not be covered with Sikalastic RoofPro membrane systems.
- Unvented metal pan, split/sandwich slab with encapsulated membrane and/or insulation, cinder fill decks, and lightweight insulating concrete deck overlays should not be covered with Sikalastic RoofPro systems without additional deck evaluation and subsequent approval by Technical Services.
- Do not subject to continuous immersion, i.e., fountains, ponds, pools, or interior of tanks.
- Not recommended for use over ceramic tile.

PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE-PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-RENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

REEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY.

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINCE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.

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Sika Mexicana S.A. de C.V.

Carretera Libre Celaya Km. 8.5

**Product Data Sheet** Edition 6.29.2016 Identification no. Sikalastic 641 Lo-VOC Roofing System



# Sikalastic® 641 Lo-VOC Roofing System

Liquid applied single component fully reinforced Lo-VOC, low-odor system with fiberglass or polyester reinforcement

Description	Sikalastic 641 Lo-VOC roofing syste urethane resins with fiberglass ma					
	system. System components are:	to polyester neete				
	Sika or Sikalastic Primer - Select pr	imer per substrate m	naterial in accordanc	e with Priming Gu	ide	
	Sikalastic 641 Lo-VOC - Resin used for all systems with polyester fleece reinforcement					
	Sika Reemat Premium - Chopped s	trand fiberglass mat				
	Sika Fleece 120, 140, 170 - Non-wo					
Vhere to Use	<ul> <li>Sikalastic RoofPro 10, 15, 20 a PMA, and Vegetated systems f</li> </ul>		-		irect, Plaza Deck/	
	Ideal for roofs displaying comp			sibility is limited		
	Effective and cost efficient life				6 I.V.	
	<ul> <li>Highly reflective Sikalastic 641</li> </ul>					
	<ul> <li>Suitable for use for application exposed to foot traffic when p</li> </ul>					
dvantages	<ul> <li>Proven technology with over 2</li> </ul>			TOT Hake Surfacility		
aranta Bes	<ul> <li>Single component - no mixing</li> </ul>					
	Fully reinforced with highly co		nat or Sika Fleece			
	Moisture triggered chemistry			ation		
	Low odor formulation					
	<ul> <li>Highly elastic and crack bridging</li> </ul>	ng				
	Seamless and fully adhered					
	Vapor permeable					
	UV resistant and non-yellowin Abrasian and chamical resistant	0				
	<ul> <li>Abrasion and chemical resistant</li> <li>Adheres to most common cont</li> </ul>		whon cuitable prime	ricusod		
oprovals	<ul> <li>FM Approval Standard 4470 fc</li> </ul>			i is useu.		
50104013	<ul> <li>Meets ASTM D7311-07: Stand</li> </ul>			le-Pack, Moisture-	Triggered, Aliphat	
	Polyurethane Roofing Membra		Elquid Applied, Shib		inggerea, mphae	
verage	See Application Below					
-	See Application Below 5 gal. pails					
ickaging	See Application Below 5 gal. pails Moisture triggered					
ickaging ire Mechanism	5 gal. pails Moisture triggered Strong resistance to a wide range of gents and moderate solutions of a Contact Technical Service for speci Typical Data (Material and curi	cids and alkalis. Som fic recommendation	e low molecular wei s. 2 <b>F and 50% R.H.)</b>	ght alcohols can so		
overage ackaging ure Mechanism hemical Resistance	5 gal. pails Moisture triggered Strong resistance to a wide range of gents and moderate solutions of a Contact Technical Service for speci	cids and alkalis. Som fic recommendation anartions depending upon L SITE CONDITIONS AND CURING 12 month	e low molecular wei s. F and 50% R.H.)	ight alcohols can so	often the material.	
ackaging ure Mechanism	5 gal. pails Moisture triggered Strong resistance to a wide range of gents and moderate solutions of an Contact Technical Service for speci <b>Typical Data (Material and curi</b> RESULTS MAY DIFFER BASED UPON STATISTICAL V APPLICATION METHODS, TEST METHODS, ACTUA Shelf Life Storage Conditions Product Conditioning	cids and alkalis. Som fic recommendation artific recommendation artific and the second second state conditions and curing 12 month Store dry Condition	e low molecular wei S. <b>F and 50% R.H.)</b> MIXING METHODS AND EQUIPM 5 CONDITIONS. 5 in original, unopened and at 35-77°F (2-25°C). material to 50-77°F (10-25	ght alcohols can so nent, temperature, d undamaged sealed con s°C) before using for easo	often the material. Itainers e of application.	
ckaging Ire Mechanism	5 gal. pails Moisture triggered Strong resistance to a wide range of gents and moderate solutions of a Contact Technical Service for speci Typical Data (Material and curi RESULTS MAY DIFFE BASED UPON STATISTICAL V APPLICATION METHODS, TEST METHODS, ACTUA Shelf Life Storage Conditions	cids and alkalis. Som fic recommendation <b>ng conditions @ 73</b> ³ ARIATIONS DEPENDING UPON I LSTE CONDITIONS AND CURING 12 month Store dry Condition White, Pe	e low molecular wei S. <b>F and 50% R.H.)</b> MIXING METHODS AND EQUIPM a CONDITIONS. Is in original, unopened and at 35-77°F (2-25°C).	ght alcohols can so nent, temperature, d undamaged sealed con s°C) before using for easo	often the material. Itainers e of application.	
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**Jika**®

# How to Use

Application

Surface Preparation

See Application below

# Substrate Evaluation

# Concrete and cementitious substrates

New concrete shall be allowed to cure a minimum of 28 days. Concrete shall have a minimum compressive strength of 20.7 MPa (3000 psi) and exhibit a minimum tensile bond strength of 1.4 MPa (200 psi). time. Moist or sheet curing methods should be used, as opposed to the use of curing compounds, which may interfere with the bond of the membrane. Inspect the concrete, including upstands, and all areas should be hammer tested. Concrete must be suitably finished, preferably by wood float or steel pan. A power float finish is acceptable where the surface is prepared to avoid laitance (a tamped finish is not acceptable). The surface finish must be uniform and free from defects such as laitance, voids or honeycombing.

# **Gypsum and Cement based sheathing**

Sheathing boards shall be clean, dry and dust free, and shall be properly secured to the structure. Loose, damaged, or contaminated boards shall be removed and replaced.

#### Brick and stone

Mortar joints must be sound and preferably flush pointed.

# Asphalt

Asphalt contains volatiles which can cause bleeding and slight non-detrimental staining. The asphalt must be carefully assessed for moisture and/or air entrapment, grade and surface finish.

#### **Bituminous felt**

Ensure that bituminous felt is firmly adhered or mechanically fixed to the substrate. Bituminous felt shall not contain badly degraded areas.

#### Bituminous coatings

Bituminous coatings shall not have sticky or mobile surfaces, volatile mastic coatings, or old coal tar coatings.

#### <u>Metals</u>

Metals must be in sound condition.

## Wooden substrates

Plywood and timber based roof decks must be in good condition, firmly adhered and mechanically fixed. All plywood should be identified as conforming to PS 1 for construction and industrial plywood by grade, APA (American Plywood Association) trademark, or equivalent. For maximum smoothness, EXT Type APA, Grade A-C should be used, and the "A" side should be positioned to receive the Sikalastic resin.

Plywood decks to receive resin directly shall be at least 1/2 inch thick and attached and supported according to APA guidelines, using only non-rusting screw, spiral or coated nail type fasteners. A good practice would be to recess or counter sink fasteners 1/8 to 1/4 inch and fill with Sikaflex sealant. Suitable edge support to prevent differential deflection between panels shall be provided. Panel edges shall be tongue and groove or supported on solid blocking. Space panels 1/8 to 3/16 inch at panel ends.

#### Paints and coatings

Ensure the existing material is sound and firmly adhered.

#### Existing Sikalastic RoofPro System

The existing Sikalastic RoofPro System shall be soundly adhered to the substrate.

#### Surface Preparation

#### Concrete and cementitious substrates

Cementitious or mineral based substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and to achieve an open textured surface (CSP 3-5 per ICRI guidelines). Loose friable material and weak concrete must be completely removed and surface defects such as blowholes and voids must be fully exposed. The amount of embedment coat required may increase over rough or highly porous surfaces.

Repairs to the substrate, filling of joints, blowholes/voids and surface levelling must be carried out. Consult Sika for product recommendations based on project requirements. High spots must be removed by grinding or similar method.

Outgassing is a naturally occurring phenomenon of concrete that can produce pinholes in liquid applied materials. The concrete must be carefully assessed for moisture content, air entrapment, and surface finish prior to any roofing work. Particular requirements for priming must also be considered. Installing the primer and membrane either when the concrete temperature is falling or stable can reduce outgassing. It is generally beneficial, therefore, to apply the primer and embedment coat in the late afternoon or evening.

#### **Gypsum and Cement based sheathing**

Sheathing boards shall be clean, dry and dust free. Secure loose boards if in sound condition. Damaged or contaminated boards shall be removed and replaced.



# Brick and stone

Power wash and use biodegradeable non-sudsing detergent with clean water rinse as required.

#### <u>Asphalt</u>

Power wash and use biodegradeable non-sudsing detergent with clean water rinse as required. All major cracks should be sealed to allow continuity of the Sikalastic RoofPro system.

#### **Bituminous felt**

Power wash and use biodegradeable non-sudsing detergent with clean water rinse as required. Treat blisters by star cutting and removing any underlying water. Allow to dry and re-adhere using suitable adhesive.

#### Bituminous coatings

Remove any loose or degraded coatings.

#### <u>Metals</u>

Ferrous metals should be thoroughly cleaned by grinding or blast cleaning prior to priming (SSPC-SP3 to near-white metal) .

Non-ferrous metals are prepared by removing any deposits of dust and oxidation and abrading to bright metal. Wire brushing can be used for soft metal such as lead. The surface must be clean and free from grease which, if present, must be removed with a solvent wipe or wash with detergent, rinse and dry.

#### Wooden substrates

Timber and timber based roof decks require additional reinforcement such as the installation of plywood, approved insulation or cover board. Small timber protrusions and suitable decks may be treated directly, provided that the timber is of exterior quality, e.g. plywood. Fill joints flush with Sikaflex sealant.

#### Paints/Coatings

Remove any loose or degraded coatings. Ensure the surface is clean and free from grease.

#### Sikaplan[®]/Sarnafil[®] membranes

Clean membranes with Sarna Cleaner (PVC membranes) and Sarnafil® T Clean (TPO membranes) prior to application of primer.

#### Existing Sikalastic RoofPro Systems

Clean the membrane using a water jet at approximately 140bar (2000 psi) and biodegradeable non-sudsing detergent with clean water rinse. Allow to dry.

#### Application

# Priming

Refer to Priming Guide to select primer for properly evaluated and prepared substrate. Refer to separate primer Product Data Sheet for application methods, coverage rates, cure times and recoat windows. Always allow primer to cure thoroughly before applying detail or base resin layer.

# Sikalastic RoofPro Priming Guide

Substrate	Remark	CONCRETE PRIMER	DTE EPOXY Primer	EP PRIMER/ SEALER	Consult Sika
CONCRETE	(1)				
LIGHTWEIGHT STRUCTURAL CONCRETE	(1)				
CEMENT, GYPSUM BASED ROOF BOARDS					
BRICK, STONE	(3)				
BITUMINOUS SUBSTRATE					
-asphalt, bituminous felts, bituminous coat- ings, granulated or smooth SBS & APP cap sheets	(2,3)				
SINGLE PLY ROOFING MEMBRANES					
-HYPALON, TPO, EPDM, PVC	(3)				
ROOF TILES (UNGLAZED)	(3,4)				
FIBERGLASS	(3)				
POLYURETHANE FOAM- sprayed or slab stock					
METALS					
-aluminum, galvanized, cast iron, copper, lead, brass, stainless steel, steel, zinc	(3)				



PRE-COATED METAL	(3)		
PAINTS			
- paints & coatings	(3)		
- aluminized solar reflective coatings	(3)		
WOOD - TIMBER & PLYWOOD	(5)		

New cementitious substrates must be Portland base and be cured min. 14 days.
 The presence of volatiles may cause discoloration of Sikalastic if not properly primed.
 Surface evaluation and field adhesion testing.
 Glazed tile consult Sika.
 Pressure treated lumber consult Sika

### Detailing

Non-structural cracks up to 1/16 inch - Detail application not necessary. Apply embedment/base resin layer per below.

Non-structural cracks between 1/16 inch and 1/4 inch - Rout and seal with Sikaflex sealant. Apply 40-45 mil resin layer embedded with 3 inch Sika Flexitape Heavy centered over crack. Apply embedment/base resin layer per below.

**Cracks and joints between 1/4 inch and 1 inch** - Rout and seal with Sikaflex sealant. Apply bond breaker tape sufficient to span width of crack or joint followed by 40-45 mil resin layer embedded with 6 inch Sika Flexitape Heavy centered over crack or joint. Apply embedment/base resin layer by terminating Sika Reemat or Sika Fleece at edges of crack or joint overlapping Sika Flexitape Heavy a minimum of 2 inches on both sides.

Joints greater than 1 inch - Treat as expansion joint. Consult Sika for recommendations.

Metal seams and plywood/coverboard joints - Apply 40-45 mil resin layer embedded with 3 or 6 inch Sika Flexitape Heavy centered over seam. Apply embedment resin layer per below.

Transitions between dissimilar materials - Apply 40-45 mil resin layer embedded with Sika Flexitape Heavy centered over edge. Apply embedment resin layer per below.

#### Embedment/Base Resin Layer with Sika Reemat Reinforcement

Mixing not required. Apply Sikalastic 641 Lo-VOC per RoofPro System Guide at the coverage rate in the RoofPro System Guide with a 1/2 inch nap phenolic resin core roller. Material can also be squeegee or spray applied, in which case it should be backrolled prior to embedding Sika Reemat. Place Sika Reemat in wet base resin layer overlapping seams a minimum of 2 inches (place frayed edge over cut edge of roll) and apply wet roller to topside to saturate completely. After approximately 5 minutes the binder will begin to dissolve allowing the fiber strands to conform to irregular surfaces. Do not over work once the fibers have conformed to the substrate.Allow to cure 12 hours at 70 degrees F and 50 % RH or until tack free before top resin layer. Keep clean and dry and apply top resin layer within 7 days. If window is exceeded clean with non-sudsing detergent and clean water rinse, and allow to dry prior to application of Sika Reactivation Primer.

#### Top Resin Layer with Sika Reemat Reinforcement

Mixing not required. Apply Sikalastic 641 Lo-VOC at the coverage rate in the RoofPro System Guide with a 1/2 inch nap phenolic resin core roller. Material can also be squeegee or spray applied, in which case it should also be backrolled. In the case of RoofPro 25 allow the first top resin layer to cure 12 hours at 70 degrees F and 50% RH or until tack free before applying second top resin layer. On top of the complete RoofPro system additional resin layers may be applied with aggregate for slip resistance - consult Sika for recommendations. Keep clean and dry and apply additional resin layers within 7 days. If window is exceeded clean with non-sudsing detergent and clean water rinse, and allow to dry prior to application of Sika Reactivation Primer.

Sikalastic RoofPro 641 Lo-VOC System Guide with Sika Reemat						
	RoofPro 10 RooftPro 15 RoofPro 20 RoofPro 25					
Substrates	Concrete or cementitious, metals, woods, single-ply or bituminous, stone					
Primer		Required - see Substrate Priming Guide				
Detailing	Sika Flexitape Heavy centered over seams, transistions and properly treated cracks and joints					
Reinforcement	Sika Reemat Standard Sika Reemat Premium embedded in base resin layer over entire surface					
Sikalastic 641 Lo-VOC Base Layer	30 mils wet - 53 sf/gal.	50 mils wet - 32 sf/gal.	50 mils wet- 32 sf/gal.	50 mils wet - 32 sf/gal.		
Sikalastic 641 Lo-VOC Top Layer	30 mils wet - 53 sf/gal.	20 mils wet - 80 sf/gal.	30 mils wet - 53 sf/gal.	23 mils wet - 69 sf/gal.		
Sikalastic 641 Lo-VOC Top Layer				23 mils wet - 69 sf/gal.		
Total Film Thickness	53mils dry 62 mils dry 71 mils dry 85 mils dry					
NOTE: Coverage rates provided are opti	mal - coverage rates will vary o	enending on temperature, sur	face roughness norosity and	application technique		

OTE: Coverage rates provided are optimal - coverage rates will vary depending on temperature, surface roughness, porosity, and application technique

#### Wet on Wet Application with Sika Fleece Reinforcement

Mixing not required. To primed substrate apply two-thirds of the Sikalastic 641 Lo-VOC specified in the RoofPro System Guide with a 1/2 inch nap phenolic resin core roller. Immediately place specified Sika Fleece into wet resin overlapping seams a minimum of 3" along the edge and 6" end-to-end. Apply wet roller to topside with light pressure to saturate fleece from bottom and ensure air pockets are completely removed. Immediately apply all of remaining one-third of Sikalastic 641 Lo-VOC resin specified in the RoofPro System Guide to ensure even and complete fleece saturation from topside and uniform texture.



Sikalastic RoofPro 641 Lo-VOC System Guide with Sika Fleece					
	RoofPro 15 RooftPro 20 RoofPro 25				
Substrates	Concrete or cementitious, metals, woods, single-ply or bituminous, stone				
Primer	Required - see Substrate Priming Guide				
Detailing	Sika Flexitape Heavy centered over seams, transistions and properly treated cracks and joints				
Reinforcement	Sika Fleece 120 (US)	Sika Fleece 140 (US)	Sika Fleece 170 (US)		
Sikalastic 641 Lo-VOC	70 mils wet - 25 sf/gal.	80 mils wet - 20 sf/gal.	95 mils wet- 16 sf/gal.		
Total Film Thickness	62 mils dry 71 mils dry 84 mils dry				

## Aggregated or Flake Surfacing

Supplemental aggregate and flake surfacing is required for all applications that will experience direct foot traffic such as balconies, terraces, walkways, and plazas, and is recommended for areas that experience maintenance foot traffic. Supplemental aggregate surfacing is applied in a supplemental resin layer after the Sikalastic membrane has been installed and is not applied into the roofing/waterproofing membrane itself.

#### Seed and Back Roll Option

The Seed and Backroll option is primarily intended for use for maintenance traffic-type applications where enhanced slip resistance is required.

Apply Sikalastic 641 Lo-VOC resin at 15 mils wet film thickness to the installed, cured membrane system. While the supplemental resin application is still wet seed with kiln dried, iron free aggregate. Back roll the surface to encapsulate the aggregate in the Sikalastic resin.

# Full Broadcast and Seal Option

The Full Broadcast and Seal option is intended for use for applications where both enhanced slip resistance and physical protection of the roofing membrane is required.

Apply Sikalastic 641 Lo-VOC resin at 15 mils wet film thickness to the installed, cured membrane system. While the supplemental resin application is still wet broadcast to rejection (full broadcast, beach) with kiln dried, iron free aggregate. Remove excess aggregate after cure. Seal with an additional coat of Sikalastic resin.

# Decorative Quartz and Decorative Flake Options

The Decorative Quartz and Decorative Flake options are intended for use for applications where enhanced slip resistance, physical protection of the roofing membrane, and a decorative element is required.

Apply Sikalastic 641 Lo-VOC resin at 15 mils wet film thickness to the installed, cured membrane system. While the supplemental resin application is still wet broadcast to rejection (full broadcast, beach) with colored quartz aggregate or synthetic flakes. Remove excess aggregate/flakes after cure. Seal with a coat of Sikalastic 748 PA at 15 mils wet film thickness.

Decorative flakes can also be seeded at less than full broadcast quantities. Remove excess aggregate/flakes after cure. Seal with a coat of Sikalastic 748 PA at 15 mils wet film thickness.

#### Aggregate Selection

Use clean, rounded or semi-angular, oven dried quartz sand with a minimum hardness of 6.5 per the Moh's scale. It should be supplied in pre-packaged bags and free of metallic or other impurities. The following size gradations are recommended:

- 16-30 or 20-40 mesh for pedestrian traffic systems
- Sika DecoQuartz Blends or equivalent for Decorative Quartz systems

#### Flake Selection

Use virgin vinyl flakes, supplied in pre-packaged bags and free from impurities. The following is recommended:

■ Sika DecoFlake Blends or equivalent for Decorative Flake systems

Tooling & Finishing	See Above
Removal	Remove liquid resin immediately with dry cloth. Once cured, resin can only be removed by mechanical means.
Over Painting	See Above.
Limitations	<ul> <li>To avoid dew point conditions during application, relative humidity must be no more than 95% and substrate temperature must be at least 5°F (3°C) above measured dew point temperatures.</li> <li>Minimum ambient and substrate temperature during application and curing of material is 36 degrees F (2°C); maximum is 95°F (35°C). Surface temperatures must be no higher than 140°F (60°C). Frequent monitoring of ambient and substrate temperature should always be done when applying polyurethane resins. Note that low temperatures and low humidity will slow down the cure, and high temperatures and high humidity will accelerate it.</li> <li>Do not apply on substrates with moisture content greater than 4% by weight, measured by Tramex Concrete Moisture Encounter meter.</li> </ul>
INS ⁻	OR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND TRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA

- Minimum age of concrete must be 28 days depending on curing and drying conditions.
- Do not thin with solvents.
- Do not store materials outdoors directly exposed to sunlight and moisture. Cover and protect material with breathable type covers such as canvas tarpaulins to allow venting and protection from weather and moisture. Observe temperature storage and conditioning requirements.
- Do not apply to substrate surfaces where moisture vapor transmission will occur during application and cure. This condition may be checked using ASTM D 4263 (Polyethylene sheet method).
- Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Allow sufficient time for the substrate to dry after rain or inclement weather, as there is the potential for bonding problems.
- On substrates likely to exhibit outgassing apply during falling ambient and substrate temperature. If applied during rising temperature pinholing or blistering may occur.
- Use sunglasses with UV filter when applying highly reflective Sikalastic 641 Lo-VOC White (RAL 9016).
- Do not use for indoor applications unless sufficient air flow and ventilation are provided to prevent odors and/or vapors from leaving the immediate work area.
- Precautions should be taken to prevent odors and/or vapors from entering the building/structure, including but not limited to turning off and sealing air intake vents or other means of ingress for odors and/or vapors into the building/structure during product application and cure.
- Not recommended for direct exposure to heavy or frequent foot traffic.
- Do not apply cementitious products, such as tile mortar directly onto Sikalastic 641 Lo-VOC. See Sikalastic 624 WP Product Data Sheet.
- Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various product solutions). Surface irregularities may reflect through the cured system.
- When applying over existing coatings or membranes compatibility and adhesion testing and subsequent ap proval by Technical Services is required.
- Opening to traffic prior to cure may result in loss of aggregate or permanent staining and subsequent premature failure.
- On grade concrete decks should not be covered with Sikalastic RoofPro membrane systems.
- Unvented metal pan, split/sandwich slab with encapsulated membrane and/or insulation, cinder fill decks, and lightweight insulating concrete deck overlays should not be covered with Sikalastic RoofPro systems without additional deck evaluation and subsequent approval by Technical Services.
- Do not subject to continuous immersion, i.e., fountains, ponds, pools, or interior of tanks.
- Not recommended for use over ceramic tile.

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# Sikalastic[®]-600 Accelerator

Description	Sikalastic [®] -600 Accelerator is a single component, low viscosity, accelerating agent that enhances the moisture-trig- gered curing characteristics of Sikalastic [®] 600-series saturating resins for roofing and waterproofing applications.	
Where to Use	Suitable for use with all Sikalastic [®] 600-series saturating resins	
Advantages	<ul> <li>Reduces cure time of single component Sikalastic[®] 600-series saturating resins</li> <li>Allows more rapid return to service</li> <li>Avoids project delays due to lower application temperatures</li> </ul>	
Packaging	4 oz bottles (6 bottles per carton)	
Coverage	1 4-oz. bottle per 5 gal. pail of resin	
Cure Mechanism	Accelerates moisture-triggered cure	
Application		
Mixing	Thoroughly mix Sikalastic [®] -600 Accelerator into Sikalastic resin using a low-speed (400-600 rpm) drill with mechani- cal mixer (Jiffy) at slow slow speed until a homogenous mixture and uniform color is obtained (typically 1 minute). Use care not to allow the entrapment of air into the mixture.	
Removal	Remove liquid accelerator immediately with dry cloth. Once cured, accelerator can only be removed by mechanical means.	
Limitations	<ul> <li>Precautions must be taken to prevent vapors and/or odors from entering the building/structure, including but not limited to turning off and sealing air intake vents and through-wall air conditioners, and other means of vapor, odor ingress during resin application and cure.</li> <li>Do not store materials outdoors directly exposed to sunlight and moisture. Cover and protect materials with breathable type covers such as canvas tarpaulins to allow venting and protection from weather and moisture. Observe temperature storage and conditioning requirements.</li> </ul>	
	Typical Data (Material and curing conditions @ 75°F (24°C) and 50% RH)	

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AN EQUIPMENT TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life Storage Product Conditioning Color	2 years in original, unopened containers. Store dry at 40°-95°F (4°-35°C) Condition material to 65-85 °F (18-30 °C) before using. Clear
Mixed Resin Pot Life	45 minutes
Volume Mixing Ratio-Accelerator to Resin	1:160 (0.625%)
Viscosity	100 +/- 50 cps
Specific Gravit	0.87
VOCs (ASTM D-2369-81)	0 g/L.

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### Sikalastic[®] Clearglaze (Decothane[®] Clearglaze) Water-based metal primer

### Description

Sikalastic Clearglaze is a clear aliphatic, polycarbonate polyurethane coating which forms an effective barrier to water penetration and the ingress of atmospheric chemicals. Its transparent finish renders it suitable for applications where it is desirable to retain the appearance of the underlying substrate. It is particularly suitable for protecting porous stone, decorative aggregate panels and brick work against water penetration and subsequent freeze/thaw damage. In addition, it provides an effective barrier to carbon dioxide diffusion, making it ideal for protecting reinforced concrete against carbonation.

Sikalastic Clearglaze has a high solids formulation which uses moisture to trigger the curing process but, unlike conventional moisture cured systems, will not foam when excess moisture is present. Consequently, it will continue to cure normally, even in wet conditions and therefore helps to keep contract time to a minimum. The cured membrane enhances natural substrate colors producing a "wet look" finish which will not discolor with age or prolonged UV exposure.

Sikalastic Clearglaze is also suitable for use as a waterproof, anti-shatter coating over glass and roof lights. Combining toughness with excellent adhesion, the coating will prevent glass fragments from splintering in the event of an impact or explosion.

### TECHNICAL DATA

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODSAND AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, ACTUAL SITE CONDITIONS, AND CURING CONDITIONS.

Water vapor permeability BS. 3177 (0-75%RH) 9.02 g./m²/day at 24 mils or 1308 psi 0.768 Perms

Impact resistance BS.3900: Part E3. Withstands 5mm or .20 inch indentation without damage to film.

g lass shatter resistance BS.6206: Class B (unreinforced) at 11.9 mils DFT

Accelerated weathering QUV ASM G53.77 - 5000 hours No deterioration; clarity retained.

Service temperature -122°F to 176°F

### **Chemical resistance**

Resistant to standard 10% solutions of mineral acids, most alkalis, acid rain and detergents. Some oils and solvents may soften the surface. Salt spray to BS.3900 Part 4 and ASTMB117 – 500 hours. No rusting, blistering or delamination.

### Anti-carbonation

Equivalent carbonation barrier to 55.36 meters or 176 feet of air at 24 mils DFT. Effective barrier = 50 meters or 159 feet.

### Approximate solids content

64.9% by weight 59.5% by volume

### Specific gravit

1.20

vo C content 360 g/L

#### Drying times

At approximately 68°F/50% R.H., touch dry at 6 to 7 hours; through cure at a minimum of 8 hours. At approximately 36°F through cure at 24 hours.

### minimum application temperatures

36°F providing that this is 5°F above dew point. When applying Sikalastic Clearglaze by spray equipment, the material must be kept above 50°F.

#### maximum substrate moisture content

28% wood moisture equivalent, as measured by a Protimeter.

### Storage

All coatings should be kept dry and protected from frost and excessive heat. Previously opened pails should be used as soon as possible- within two or three days at most – and lids should always be replaced securely when the product is not being applied. Do not expose material to

extreme temperature differentials or store exposed to sun.

#### Storage temperatures

Store in dry, frost free conditions. Sikalastic Clearglaze should be stored above 35°F and below 86°F.

### Pack size

5 liters

### Shelf life

12 months.

#### Approximate dry film thicknes 12 mils (for general use)

24 mils (for anti-carbonization/anti-shatter applications).

### Tensile strength

25 N/mm² or 362 psi (unreinforced)

### **Tensile elongation** 250% (unreinforced)

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Tear strength 18 N/mm² or 2610 psi.

### Adhesion (to glass)

Elcometer pull off tests >3 N/mm² or 435 psi

f ire resistance (BS. 476 Part 6 and 7)

Class "O" rating on concrete surfaces.

Color Clear

Sikalastic Clearglaze Site Work and Application

### Asbestos cement and asbestos-free equivalents

Always ensure strict compliance with Health and Safety requirements when working with asbestos-containing materials. The coating may be applied direct provided that the surface is dry. Extra care must be taken when cleaning since any shading of the surface will show through the coating.

### bricks, blocks and stone

Clay and cement bricks may be coated directly after preparation. Stonework which is clean and free from dirt and other contaminants may be treated directly.

### **Cementitious materials**

Concrete and screeds etc must be a minimum of 14 days old before treatment. Please consult our technical services department before applying to highly porous substrates. Adhesion tests should be carried out before over coating repair mortars.

### g lass

Ensure surfaces are clean and degreased before application. Apply to plain and reinforced glass, leaded windows, glazing strips and roof lights, unless total optical clarity must be obtained. Sikalastic Clearglaze may be lapped onto painted frames but it is not recommended for fully coating external painted surfaces since the paint may discolor and/or flake, resulting in delamination.

### metals

Apply direct to most metals. Please seek advice from Sika's Technical Services Department before coating ferrous metals.

### Plastics

Usual preparation procedures should be observed. Remove any oxidized layers and use localized reinforcement over joints. Any reinforcement incorporated within the membrane will be visible.

### Slates, tiles etc.

Sloping slate or tile roofs may be coated directly to prevent water absorption while maintaining the original appearance of the substrate. Inspect tiles to ensure that they are firmly adhered. Degrease glazed tiles, clean and allow to dry before applying Sikalastic Clearglaze. Do not use for treating bitumen coated tiles or shingles, as staining will result.

### **Coverage Rates**

The average rate for Sikalastic Clearglaze will depend on the intended function of the coating. Please consult our Technical Services Department for details about specific application.

System*	Coverage	Approx Wf T/mils
Unreinforced- General Weatherproofing	80 ft²/gal	20 mils
Unreinforced- Anti-Car- bonation	40 ft²/gal	40 mils
Reinforced Waterproofing System (2 coats)	40 ft²/gal	40 mils

When using a partially reinforced system, the following extra quantities are required for embedment prior to over coating as above.

Reinforcement Type**	Coverage	Approx Wf T/mils	At width (in)
Sika Flexitape Light	53 ft²/gal	30 mils	2"
Sika Flexitape Heavy	32 ft²/gal	50 mils	3"

* Plus wastage/embedment allowance.

** Sika Reemat Premium reinforcement is normally used with Sikalastic Clearglaze. When using a fully reinforced system, apply an embedment coat at 40 mils WFT, 40 ft²/gallon and embed the glass fiber mesh using light pressure from a roller. Allow to dry and apply a second coat at 40 mils WFT, 40 ft²/gallon. NOTE: One coat applications – inspect cured film thoroughly for voids or thin areas. Overcoat any affected sections.

### Preparation

Ensure surface is clean and sound prior to application of Sikalastic Clearglaze. Any areas contaminated with moss or lichen must be treated with Liquid Plastics' Biocleanse to prevent re-development.

### Application

Once the relevant system has been selected, please refer to the above for details of coverage rates. Rough, porous, absorbent or undulating surfaces will inevitably increase the quantity of coating required. Surface preparation for a clear coating must be thorough, particularly in relation to the removal of all organic growth. Always allow primer and any previous coat to dry/cure thoroughly before applying the following coat. Coatings will generally require curing overnight, although under optimal conditions (at higher temperatures and higher relative humidity) work may often recommence sooner. Do not thin or brush out like conventional coatings. When using brushes, the first coat should ideally be applied in one direction only, where possible, the second coat should be applied at right angles to the first.

### Equipment

### Roller

Use on flat or undulating surfaces but not on rough surfaces. Lay using light pressure in two coats to bring up to required coverage rate using a medium pile sheepskin roller, do not over work. In excess of 40ft²/gallon total applications, three coats may be needed to avoid slump.

### brush

Apply in two coats. Apply second coat at right angles to first coat whenever possible. Use a soft nylon or bristle brush. Application limits per coat are the same as for roller applications,

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### Clean up

Before curing, flush/wash equipment with MEK, cleaning solvent, xylol or cellulose thinners. Avoid any solvents containing alcohols.

DO NOT thin material unless specifically allowed by LP technical personnel.

### **Routine Care and maintenance** g eneral

In normal use, Sikalastic systems require no routine maintenance other than periodic inspections to check for damage by accidental impact or by building modifications. During the course of such inspections, sharp objects such as screws, stones, broken glass and other material should be removed from the surface in order to minimize the chances of accidental damage by subsequent foot traffic.

### Repairs

In the event of localized damage, or to reinstate a completely seamless barrier following structural modifications, repairs can be made quickly and easily by applying more of the appropriate coating to the affected areas. If treating small punctures, the surrounding membrane should be cleaned, primed if necessary and repaired by the application of additional material (usually by brush or roller). If treating new joints etc. embed either Sika Reemat GFM or Sika Flexitape into the wet coating and allow to cure before applying a second coat. In small cases, care should be taken to restore the dry film thickness of the original membrane.

### **Health and Safety**

Please refer to the MSDS prior to use.

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Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart-ment at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT TTP://INCLUM.OR OF MARCHANGES. HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.

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Sika Canada Inc. 601 Delmar Avenue Pointe Claire Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792

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# Sika® Reemat Standard and Premium

Randomly oriented glass fiber reinforcement for Sikalastic[®] RoofPro systems

Description	Surface treated, randomly oriented glass fiber reinforcement to enhance the strength and durability of Sikalastic [®] RoofPro 601 BC, 621 TC, 624 WP, 641, and 641 Lo-VOC roofing and waterproofing membranes.
Where to Use	<ul> <li>Ideal for roofing and waterproofing applications displaying complex details and geometry or when accessibility is limited.</li> <li>Suitable for applications where visibility of reinforcement overlaps is an aesthetic concern.</li> </ul>
Advantages	<ul> <li>Provides maximum conformability to uneven substrates.</li> <li>Creates strong reinforced roofing and waterproofing membranes with enhanced tensile strength.</li> <li>Increases puncture and tear resistance.</li> </ul>
Coverage Resistance	Standard: 51" roll: 2,788 ft ² per roll (not including overlaps) Premium: 51" roll: 1,254 ft ² per roll (not including overlaps) Premium: 12" roll: 295 ft ² per roll (not including overlaps)
Chemical	Not intended to be directly subjected to chemical exposure without being fully saturated with liquid resin.
Packaging	Standard: 51"w x 656' l individually bagged rolls Premium: 51"w x 295' l individually bagged rolls Premium: 12"w x 295' l individually bagged rolls

### Typical Data (Material and curing conditions @ 75°F (24°C) and 50% RH)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDI-TIONS AND CURING CONDITIONS.

Shelf Life: Storage Conditions:	Indefinite Store flat and wrinkle-free i	n original, unopened	and
Product Conditioning:	undamaged sealed packag Recommended to conditior	• •	(10°-25°C)
rouder contaitoning.	before using to match liquid		(10 20 0)
Color	Off-White		
	Standard	Premium	
Weight (g/m²):	225 +/- 25	225 +/- 25	
Weight (oz/yd²):	6.6 +/- 0.7	6.6 +/- 0.7	
Roll Width:	51"	51"	12"
Roll Length:	656 ft.	295 ft.	295 ft.
Total Gross Area:	2,788 ft ²	1,254 ft ²	295 ft ²



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How to Use	
Surface Preparation	Substrate surfaces, including flashing substrates, shall be primed, clean and dry, in accordance with separate System Data Sheet.
Application	Apply the specified base layer resin quantity to primed substrate surface with a 1/2" nap phenolic resin core roller. Immediately place Sika® Reemat into wet resin, overlapping reinforcement 2' along the sides and at the roll ends. Apply wet roller to topside with light pressure to completely saturate the Reemat and to allow the Reemat to conform to substrate irregularities and flashing conditions. Apply additional resin as required to top of the Reemat to aid in conformity.
Removal	Remove glass mat saturated with liquid resin from substrate immediately, and wipe substrate with dry cloth. Once cured, reinforced membrane can only be removed by mechanical means.
Limitations	<ul> <li>Avoid creating wrinkles and creases during storage, as they will tend to be visible in finished membrane after application.</li> <li>Store rolls on end, and not on their side.</li> <li>Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various Sika product solutions). Surface irregularities may reflect though the cured system.</li> <li>Do not apply to a porous or damp surface where moisture vapor transmission will occur during application and cure.</li> <li>Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Allow sufficient time for the substrate to dry after rain or inclement weather as there is the potential for bonding problems.</li> </ul>

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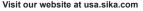
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C.P. 76920

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### Sika® Fleece 120 (US), 140 (US), and 170 (US) Polyester fleece reinforcement for Sikalastic RoofPro systems

Description	Non-woven, needle-punched polyester fleece reinforcement to enhance the strength and durability of Sikalastic RoofPro 621 TC and 624 AR roofing and waterproofing membranes
Where to Use	<ul> <li>Ideal for roofing and waterproofing applications displaying complex details and geometry or when accessibility is limited</li> <li>Suitable for applications where visibility of reinforcement overlaps is not an aesthetic concern</li> <li>Ideal for applications where a one-day system installation is required</li> </ul>
Advantages	<ul> <li>Permits wet on wet application of Sikalastic 621 TC (US) and Sikalastic 624 AR resins</li> <li>Creates strong reinforced roofing and waterproofing membranes with enhanced elongation properties</li> <li>Fleece thickness dictates membrane thickness</li> <li>Reduces pinholing due to outgassing</li> <li>Increases puncture and tear resistance</li> </ul>
Coverage	600 sf per roll (not including overlaps)
Chemical Resistance	Not intended to be directly subjected to chemical exposure without being fully saturated with liquid resin
Packaging	48" w x 150' l individually bagged rolls

### Typical Data (Material and curing conditions @ 75°F (24°C) and 50% RH)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life: Storage Conditions:		le-free in original, un	•
Product Conditioning:	0	packaging in dry cor ondition material to 50 ch liquid resin.	
	Sika Fleece 120	Sika Fleece 140	Sika Fleece 170
Weight (g/m2):	120 +/- 15	140 +/- 17	170 +/- 20
Weight (oz/yd2)	3.5 +/- 0.4	4.0 +/- 0.5	5.0 +/- 0.6
Thickness (ASTM D-5729):	50 mils +/- 10%	60 mils +/- 10%	80 mils +/- 10%
Tensile Strength MD (ASTM D-5034):	45 lbs. min.	50 lbs. min.	55 lbs. min.
Tensile Strength CMD (ASTM D-5034):	55 lbs. min.	70 lbs. min.	75 lbs. min.
Elon gation MD (ASTM D-5034):	30 +/- 10%	42 +/- 10%	34 +/- 10%
Elongation CMD (ASTM D-5034):	28 +/- 10%	34 +/- 10%	32 +/- 10%
Roll Width:	48"	48"	48"
Roll Length:	150 ft.	150 ft.	150 ft.
Total Gross Area:	600 sf	600 sf	600 sf



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<ul> <li>remove fleece. Apply approximately 2/3 of the specified resin quantity to pri surface with a 1/2" nap phenolic resin core roller. Immediately fit and place Si wet resin, overlapping reinforcement 3" along the sides and 6" at the roll er roller to topside with light pressure to saturate from bottom and to ensure that completely removed. Immediately apply the remaining 1/3 of the specified resi apply wet roller to topside with light pressure to fully saturate the membran an even texture and appearance.</li> <li>Removal Remove fleece saturated with liquid resin from substrate immediately, and wipe dry cloth. Once cured, reinforced membrane can only be removed by mechar Limitations</li> <li>Avoid creating wrinkles and creases during storage, as they will tend to b finished membrane after application.</li> <li>Store rolls on their side and not on end.</li> <li>Any repairs required to achieve a level surface must be performed prior to (consult a Sika representative for guidance on various Sika product soluti irregularities may reflect though the cured system.</li> <li>Do not apply to a porous or damp surface where moisture vapor transmis during application and cure.</li> <li>Substrate must be dry prior to application. Do not apply to a frosted, wet of face. Allow sufficient time for the substrate to dry after rain or inclement w there is the potential for bonding problems</li> <li>CAUTION</li> <li>Sika Fleece-120</li> <li>Not a hazardous substance or mixture. This product does not contain any che to the State of California to cause cancer, birth, or any other reproductive defined reside advice/attention. If skin ritration or rash occurs: Get n attention. If skin ritration or rash occurs: Get n attention. If skin ritration or rash occurs: Get n attention. If skin ritration or rash occurs: Get n attention. If skin ritration or rash occurs: Get n attention. If skin ritration or rash occurs: Get n dical advice/attention. If skin ritration or rash occurs: Get n to do. Conti</li></ul>	dry, in accordanc	ion Substrate surfaces, including flashing substrates, shall be primed, clean and dry, ir with separate System Data Sheet.	urface Preparation
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AT 800-933-7452. NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTION FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT

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### Sika Fleece-170

Not a hazardous substance or mixture. This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Wash skin thoroughly after handling. Use personal protective equipment as required. IF INHALED: Move to fresh air. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: rinse mouth. Do NOT induce vomiting. If eye irrita-tion persists: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. IF exposed or concerned: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

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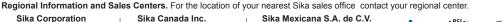
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**Product Data Sheet** Edition 5.20.2014 Sika® Flexitape Heavy

Sika[®] Flexitape Heavy Woven Nylon Reinforcing and Detailing Mesh

Description	Polyamide knitted reinforcement for use with Sikalastic RoofPro and Sikagard wall coating systems.
Where to Use	<ul> <li>Moving and nonmoving cracks</li> <li>Cold joints</li> <li>Joints between dissimilar materials</li> <li>Wall/deck intersections</li> <li>Flashing reinforcement</li> </ul>
Advantages	<ul> <li>Stretches within membrane to accommodate thermal and structural movement</li> <li>Imparts additional strength and durability</li> <li>Conforms to substrate contours and flashing conditions</li> </ul>
Coverage	164 lin. ft.
Chemical Resistance	Not intended to be directly subjected to chemical exposure without being fully saturated with liquid resin
Packaging:	3" or 6" w x 164' l rolls

### Typical Data (Material and curing conditions @ 75°F (24°C) and 50% RH)

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life:	Indefinite
Storage Conditions:	Store flat in original, unopened and undamaged sealed packaging in dry conditions.
Product Conditioning:	Recommended to condition material to 50-77°F (10- 25°C) before using to match liquid resin.
Color	Off-white
Roll Width:	3" or 6"
Roll Length:	164 ft.
Total Gross Area:	164 lin.ft.



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How to Use	
Surface Preparation	Substrate surfaces, including flashing substrates, shall be primed, clean and dry, in accordance with separate System Data Sheet.
Application	Non-moving j oints and Cracks
	Apply liquid resin to primed substrate. Embed Flexitape into liquid resin without stretching be gentle brush or roller pressure. Apply additional liquid resin to fully encapsulate the Flexitape.
	Moving j oints and Cracks
	Apply 1-2" wide release tape over moving joint/crack. Apply liquid resin to primed substrate Embed Flexitape into liquid resin without stretching, centered over joint/crack, by gentle brus or roller pressure. Apply additional liquid resin to fully encapsulate the Flexitape. Flexitape sha extend 1-1/2" minimum beyond both sides of the release tape.
Removal	Remove Flexitape saturated with liquid resin from substrate immediately, and wipe substrate with dry cloth. Once cured, reinforced membrane can only be removed by mechanical means.
Limitations	Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various Sika product solutions). Surface irregularities may reflect though the cured system.
	Do not apply to a porous or damp surface where moisture vapor transmission will occur during application and cure.
	<ul> <li>Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface Allow sufficient time for the substrate to dry after rain or inclement weather as there is the potential for bonding problems.</li> </ul>
CAUTION	Not a hazardous substance or mixture. This product does not contain any chemicals known the State of California to cause cancer, birth, or any other reproductive defects.
	Wash skin thoroughly after handling. Use personal protective equipment as required. INHALED: Move to fresh air. IF ON SKIN: Wash with plenty of soap and water. IF IN EYE Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy do. Continue rinsing. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If eye irritation persists: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice attention. IF exposed or concerned: Get medical advice/attention. Take off contaminated clothir and wash before reuse.
	PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800-933-7452. NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTION FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.
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a	or further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to ctual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sh efore using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.
D	rior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Prod ata Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Dep lent at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruct or each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.
tr ri P R R	IKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical propertie the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assume sks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTI ARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICU URPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES, SIKA SHALL NOT ESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPE IGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE TTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.
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**Product Data Sheet** Edition 2.4.2016 Identification no. Sika® Joint Tape SA

### Sika® Joint Tape SA

Self-adhering polymeric rubberized tape with woven polyester facer

Description		rubberized tape with plastic release liner on underside and woven polyester face the strength and durability of Sikalastic roofing and waterproofing membranes nges.
Where to Use	<ul> <li>Fleece facer allows</li> <li>Stretches with mer</li> <li>Imparts additional</li> </ul>	rimer required for most applications positive resin/coating bond nbrane to accomodate thermal and structural movement strength and durability ate contours and flashing conditions
Advantages	<ul><li>Reinforcement of ju</li><li>Reinforcement of ju</li></ul>	oints between insulation and cover boards oints between plywood deck panels oints and seams in metal roofing al flanges to structural deck
Coverage	50 lin. ft.	
Cure Mechanism	n N/A	
Chemical Resist	ance Not intended to be dire resin.	ctly subjected to chemical exposure without being fully coated with liquid
Packaging	3" or 6" w x 50' l rolls. (	Carton contains 8 3" wide rolls and 4 6" wide rolls, 100 sf total.
	RESULTS MAY DIFFER BAS MIXING METHODS AND EQ TEST METHODS, ACTUAL S Shelf Life	nd curing conditions @ 75°F (24°C) and 50% RH) ED UPON STATISTICAL VARIATIONS DEPENDING UPON UIPMENT, TEMPERATURE, APPLICATION METHODS, SITE CONDITIONS AND CURING CONDITIONS. 2 Years
	RESULTS MAY DIFFER BAS MIXING METHODS AND EQ TEST METHODS, ACTUAL S Shelf Life Storage Conditions Product Conditioning Color Roll Width Roll Length Total Thickness	<ul> <li>ED UPON STATISTICAL VARIATIONS DEPENDING UPON UIPMENT, TEMPERATURE, APPLICATION METHODS, ITE CONDITIONS AND CURING CONDITIONS.</li> <li>2 Years</li> <li>Store flat in original, unopened and undamaged sealed packaging in dry conditions. Do not expose to direct sunlight or other heat sources.</li> <li>Recommended to condition material to 50-77 °F (10-25 °C) before using.</li> <li>Off-white fleece top surface, black bottom surface 3" or 6"</li> <li>50 ft.</li> <li>30 mils</li> </ul>
	RESULTS MAY DIFFER BAS MIXING METHODS AND EQ TEST METHODS, ACTUAL S Shelf Life Storage Conditions Product Conditioning Color Roll Width Roll Length	<ul> <li>ED UPON STATISTICAL VARIATIONS DEPENDING UPON UIPMENT, TEMPERATURE, APPLICATION METHODS, SITE CONDITIONS AND CURING CONDITIONS.</li> <li>2 Years</li> <li>Store flat in original, unopened and undamaged sealed packaging in dry conditions. Do not expose to direct sunlight or other heat sources.</li> <li>Recommended to condition material to 50-77 °F (10-25 °C) before using.</li> <li>Off-white fleece top surface, black bottom surface 3" or 6"</li> <li>50 ft.</li> </ul>
How To Use Surface Prepara	RESULTS MAY DIFFER BAS MIXING METHODS AND EQ TEST METHODS, ACTUAL S Shelf Life Storage Conditions Product Conditioning Color Roll Width Roll Length Total Thickness Flash Point Substrate surfaces, ind debris, and oils. Solve acetone is recommend	<ul> <li>GED UPON STATISTICAL VARIATIONS DEPENDING UPON UIPMENT, TEMPERATURE, APPLICATION METHODS, SITE CONDITIONS AND CURING CONDITIONS.</li> <li>2 Years Store flat in original, unopened and undamaged sealed packaging in dry conditions. Do not expose to direct sunlight or other heat sources. Recommended to condition material to 50-77 °F (10-25 °C) before using. Off-white fleece top surface, black bottom surface 3" or 6" 50 ft. 30 mils 110°F (43°C)</li> </ul>
	RESULTS MAY DIFFER BAS MIXING METHODS AND EQ TEST METHODS, ACTUAL S Shelf Life Storage Conditions Product Conditioning Color Roll Width Roll Length Total Thickness Flash Point Substrate surfaces, in debris, and oils. Solve acetone is recomment Priming is typically no plications (20°F - 40°F	<ul> <li>ED UPON STATISTICAL VARIATIONS DEPENDING UPON UIPMENT, TEMPERATURE, APPLICATION METHODS, SITE CONDITIONS AND CURING CONDITIONS.</li> <li>2 Years Store flat in original, unopened and undamaged sealed packaging in dry conditions. Do not expose to direct sunlight or other heat sources. Recommended to condition material to 50-77 °F (10-25 °C) before using. Off-white fleece top surface, black bottom surface 3" or 6" 50 ft. 30 mils 110°F (43°C)</li> </ul>

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Application	<b>Non-moving Joints:</b> Apply Sika Joint Tape SA to prepared substrate. Remove 4 - 6" of release liner
Аррисацон	from underside of Sika Joint Tape SA. Position Sika Joint Tape SA contered over joint extending 1-1/2" minimum over each side of the joint, and press into place. Continue to remove release liner and press Sika Joint Tape SA onto substrate surface. Apply additional pressure to applied Sika Joint Tape SA to activate bonding process. Use a steel roofer's roller for best results. The firmer the pressure applied, the faster and stronger the bond.
	<b>Moving Joints:</b> Apply 1-2" wide release tape over moving joint/crack. Apply Sika Joint Tape SA to prepared substrate. Remove 4 - 6" of release liner from underside of Sika Joint Tape SA. Position Sika Joint Tape SA centered over joint extending 1-1/2" minimum over each side of the joint beyond the release tape, and press into place. Continue to remove release liner and press Sika Joint Tape SA onto substrate surface. Apply additional pressure to applied Sika Joint Tape SA to activate bonding process. Use a steel roofer's roller for best results. The firmer the pressure applied, the faster and stronger the bond.
	<b>Touch-Up:</b> Lance, cut or pierce air bubbles and force out the air, then press the Sika Joint Tape SA back in place. Cut open tented sections of tape, press the Sika Joint Tape SA back in place, and apply an additional layer of Sika Joint Tape SA over the cut, extending 1-1/2" minimum over the cut in all directions. Cut away bunched-up sections of tape, press the Sika Joint Tape SA back in place, and apply an additional layer of Sika Joint Tape SA over the cut, extending 1-1/2" minimum over the cut in all directions. Use a steel roofer's roller on all remedial/repair applications.
Over Painting	Sikalastic resins and coatings may be applied immediately following Sika Joint Tape SA application, and should be applied within 72 hours to a clean and dry tape surface. Priming of the Sika Joint Tape SA fleece surface is not required but also does not affect tape performance. Sika Joint Tape SA is UV- resistant but is not intended for direct exposure.
Removal	If possible, remove Sika Joint Tape SA from substrate immediately. Once pressure has been applied to initiate bond, Sika Joint Tape SA can only be removed by mechanical means.
Limitations	<ul> <li>Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various Sika product solutions). Surface irregularities may reflect though the cured system.</li> </ul>
	<ul> <li>To avoid dew point conditions during application, relative humidity must be no more than 95% and substrate temperature must be at least 5°F (3°C) above measured dew point temperatures.</li> </ul>
	<ul> <li>Minimum ambient and substrate temperature during application and curing of material is 20°F (-6°C); maximum is 95°F (35°C).</li> </ul>
	<ul> <li>Do not store materials outdoors directly exposed to sunlight and moisture. Cover and protect materials with breathable type covers such as canvas tarpaulins to allow venting and protection from weather and moisture. Observe temperature storage and conditioning requirements.</li> <li>Do not apply to a porous or damp surface where moisture vapor transmission will occur during application and cure.</li> </ul>
	<ul> <li>Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Allow sufficient time for the substrate to dry after rain or inclement weather as there is the potential for bonding problems.</li> </ul>

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Sika Mexicana S.A. de C.V.

**Product Data Sheet** Edition 2.4.2016 Identification no. Sika® Joint Tape SA Primer

### Sika® Joint Tape SA Primer

Single component primer for use with Sika Joint Tape SA

Description	Sika Joint Tape SA Primer is a single component synthetic polymer-based primer for use with Sika Joint Tape SA to enhance adhesion to dusty/oxidized/porous surfaces, and to facilitate cold weather application in temperatures of 20 °F (-6 °C) to 40 °F (5 °C).	
Where to Use	<ul> <li>Dusty/oxidized EPDM and TPO single ply membranes</li> <li>Substrate surfaces contaminated with asphalt residue</li> <li>Porous masonry and concrete surfaces</li> <li>Wood substrate surfaces</li> <li>All applications with ambient and substrate temperatures below 40 °F (5 °C)</li> </ul>	
Advantages	<ul> <li>Sika Joint Tape SA Primer improves adhesion of Sika Joint Tape SA to substrate surfaces that are difficult to clean, oxidized, or too porous to provide adequate surface area for bonding</li> <li>Sika Joint Tape SA Primer enhances adhesion by preconditioning cold substrate surfaces</li> <li>Quick cure allows same-day Sika Joint Tape SA application</li> </ul>	
Coverage	200-250 sf/gallon, depending on substrate	
Cure Mechanism	Evaporative cure	
Chemical Resistance	Not intended for direct exposure	
Packaging	1 gallon cans	

### Typical Data (Material and curing conditions @ 75°F (24°C) and 50% RH) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life	12 months in original, unopened and undamaged sealed containers.
Storage Conditions	Store dry at 41-86 °F (5-30 °C).
Product Conditioning	N/A
Wet Film Thickness	4 mils typical
Viscosity	135 - 152 cps
VOCs (ASTM D-2369-81)	Exempt solvent
Flash Point	110°F (43°C)

### How To Use

Surface Preparation	Clean substrate thoroughly by solvent wiping with denatured alcohol or acetone to remove dirt, debris, oil, and other contaminants. Allow surface to dry thoroughly for a minimum of 15 minutes at 75°F and 50% relative humidity. Surface must be clean and dry.
MixingPremix Sika Joint Tape SA Primer to obtain an even consistency. Stir Sika Joint Tape SA as application progresses.	
Application	Apply a thin layer of Sika Joint Tape SA Primer with a natural bristle brush or phenolic resin core roller, ensuring 100% coverage of the surface area to be adhered to, but without puddling. Allow the primer to dry tack free. Reseal container tightly immediately after use.



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Removal	on temperature and relative humidity, and can range from 10 minutes to 1 hour or longer, depending temperature. Ideally, Sika Joint Tape SA will be applied within 2 hours of primer application. Maximu primer exposure is 12 hours.
Removal	See Label
Equipment Cleanup	See Label
Limitations	<ul> <li>To avoid dew point conditions during application, relative humidity must be no more than 95% and substrate temperature must be at least 5°F (3°C) above measured dew point tempera tures.</li> </ul>
	<ul> <li>Minimum ambient and substrate temperature during application and curing of material is 20°F (-6°C); maximum is 95°F (35°C).</li> </ul>
	<ul> <li>Do not store materials outdoors directly exposed to sunlight and moisture. Cover and protect materials with breathable type covers such as canvas tarpaulins to allow venting and protection from weather and moisture. Observe temperature storage and conditioning requirements.</li> </ul>
	<ul> <li>Existing substrate surface must be dry prior to application. Do not apply to a frosted, wet or dan surface. Allow sufficient time for the existing substrate to dry after rain or inclement weather, a there is the potential for bonding problems.</li> </ul>
	<ul> <li>Do not use Sika Joint Tape SA Primer on PVC roofs as reactivation of some plasticizers may occur</li> </ul>
	<ul> <li>Sika Joint Tape SA Primer is not UV-stable; apply Sika Joint Tape SA as soon as primer is cured ar tack-free.</li> </ul>
	<ul> <li>Precautions should be taken to prevent vapors and/or odors from entering the building/structur including but not limited to turning off and sealing air intake vents and through-wall air condtic ers, and other means of vapor/odor ingress during application and cure.</li> </ul>
THE P	RODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLI
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THE P AT HT SIKAN PROD KEEP CO For furt actual S before u Prior to Data Sh Prior to Data Sh ment at for each product SIKA with curr Buyger's SHALL THE USI SALE (	each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Proc eet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Dep 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruct In Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to



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Product Data Sheet Edition 5.20.2014 Sika® Concrete Primer

Sika[®] Concrete Primer

Density:

Flash Point:

VOCs (ASTM D-2369-81)

Service Temperature:

Rapid curing, high solids, solvent based primer

Description	Sika Concrete Primer is a two component, rapid curing, high solids, solvent-based primer, consisting of: a solvent-based polyurethane resin (Part A), and a hardener (Part B). It is designed for sealing cementitious substrates to reduce the incidence of outgassing. In its wet mixed state, Sika Concrete Primer is amber in color.	
Where to Use	Suitable for use on most sound substrate surfaces where both a penetrative and surface-lying effect is required.	
Advantages	<ul> <li>Significantly reduces the likelihood of blistering and pinholing</li> <li>Very fast curing formulation</li> <li>Combines rapid cure time with a long pot life</li> <li>Compatible with most concrete, masonry, and stone substrate materials</li> </ul>	
Coverage	225 to 375 sf/gal, depending on substrate profile and porosity 225 sf/gal on prepared, dry concrete and masonry (CSP3 surface preparation) <b>Note:</b> On porous/open substrates, apply as two coats, each at a maximum spread rate of 270 sf/gal.	
Cure Mechanism		
Chemical Resistance	Not intended for direct exposure	
Packaging:	4.5 L. kit (3.5 L Part A, 1.0 L.Part B); 23 L (2 x 11.5 L) kit (2 x 9.0 L Part A, 2 x 2.5 L Part B)	
	Typical Data (Material and curing	conditions @ 73°F (23°C) and 50% R.H.)
	RESULTS MAY DIFFER BASED UPON STATISTICAL VAP APPLICATION METHODS, TEST METHODS, ACTUAL SI	RIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, TE CONDITIONS AND CURING CONDITIONS.
	Shelf Life:	12 months in original, unopened and undamaged sealed containers.
	Storage Conditions:	Store dry at 41-77°F (5-25°C).
	Product Conditioning:	Condition material to 50-77°F (10-25°C) before using for ease of application.
	Pot Life:	45 minutes
	Total Weight Solids (ASTM D-2697):	72%

1.02 kg.l

280 g/l

Part A: 104°F (40°C) Part B: 163°F (73 °C)

-22 to 176°F (-30 to 80°C) intermittent



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How to Use Surface	All substrate surfaces shall be clean, dry and sound. Acceptable substrates include: sound	
Preparation	concrete, masonry and stone, gypsum and cement-based cover boards. Reference separat System Data Sheet for specific surface preparation requirements. Mixing Premix Part A with low speed drill and paddle (Jiffy-type). Pour entire contents of Part B into Part A and mix togethe until a homogenous mixture and uniform color is achieved (typically 3 minutes) using care to prevent entrapment of air.	
Mixing	Mix ratio is 3.55:1 (A:B) by volume and 4.56:1 (A:B) by weight. Add Part B into Part A and mi with mechanical mixer (Jiffy) at low speed. Avoid adding air into the primer during mixing. Whe fully mixed, the primer should be free from streaks and be a uniform amber color. Do not brea down kits into smaller quantities.	
Application	Apply by brush or phenolic resin core roller at the recommended rate. Correct amount of prime will saturate the substrate and leave a slight film on the substrate top surface. Apply even without puddling.	
Removal	Remove wet primer with MEK, xylene, or oxygenated solvents. Once cured, primer can only the removed by mechanical means. Strictly follow solvent manufacturer's warnings and instruction for use.	
Over Painting	Allow primer to cure completely prior to applying membrane resin. Full cure: 30 minutes at 68°F Ideally, membrane resin will be applied within 24 hours of primer application. Maximum primer exposure is 48 hours. Primer exposed longer than 48 hours, and primer exposed to water during curing and exhibiting a chalky appearance, must be reprimed. Deteriorated primer must be mechanically removed before primer reapplication.	
Limitations	<ul> <li>To avoid dew point conditions during application, relative humidity must be no more than 95% and substrate temperature must be at least 5°F (3°C) above measured dew point temperatures.</li> <li>Minimum ambient and substrate temperature during application and curing of material is 41°F (5°C); maximum is 95°F (35°C). Surface temperatures must be no higher than 140°F (60°C).</li> <li>Do not apply on substrates with moisture content greater than 4% by weight, measured by Tramex Concrete Moisture Encounter Meter.</li> <li>Minimum age of concrete must be 21-28 days depending on curing and drying conditions.</li> <li>Do not thin with solvents.</li> <li>Do not store materials outdoors exposed to sunlight and moisture for prolonged periods.</li> <li>Do not apply to substrate surfaces where moisture vapor transmission will occur during application and cure. This condition may be checked using ASTM D-4263 (Polyethylene Sheet method).</li> <li>Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Allow sufficient time for the substrate to dry after rain or inclement weather, as there is the potential for bonding problems.</li> <li>On substrates likely to exhibit outgassing apply during falling ambient and substrate temperature. If applied during rising temperature pinholing may occur.</li> <li>Precautions should be taken to prevent vapors and/or odors from entering the building/ structure, including but not limited to turning off and sealing air intake vents and throughwall air conditioners, and other means of vapor/odor ingress during application and cure.</li> <li>Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various product solutions). Surface irregularities may reflect through the cured system.</li> <li>When applying over existing coatings or membranes compatibility and adhesion testing, and subsequent approval by Technical Services is required.</li> <li>On grade concrete decks should n</li></ul>	
ka®	PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800-933-7452. NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO REAL AND FOLLOW THE WARNINGS AND INSTRUCTION FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.	

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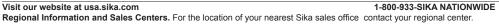


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**Product Data Sheet** Edition 7.28.2016 Sikalastic[®] DTE Primer





### Sikalastic[®] DTE Primer Damp Tolerant Epoxy Primer

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Description	Sikalastic [®] DTE Primer consists of two components: an epoxy resin (Part A), and an activator (Part B). In its wet mixed state, it is amber in color.
Where to Use         Suitable for use on most sound concrete and masonry substrate surfaces where both a p and surface-lying effect is required.	
Advantage	<ul><li>Low odor, low VOC formulation.</li><li>Seals concrete and masonry surfaces, reducing outgassing.</li></ul>
Coverage	200 ft²/gal on prepared, dry concrete, depending on substrate profile and porosity. 100 ft²/gal when mixed with 10 lbs. 20-40 mesh kiln-dried sand as a 30 mil slurry coat. Note: Rough, porous, or absorbent surfaces will require additional primer and will reduce yield.
Cure Mechanism Chemical Cure.	
Chemical Resistance Not intended for direct exposure.	
Packaging	1 gal. kit (0.62 gal. Part A, 0.38 gal. Part B).

### Typical Data (Material and curing conditions @ 75°F (24°C) and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life:	12 months in original, unopened and undamaged sealed containers.
Storage Conditions:	Store dry at 40°-95°F (2°-35°C).
Product Conditioning:	Condition material to $50^{\circ}$ -77°F ( $10^{\circ}$ -25°C) before using for ease of application.
Pot Life:	45 minutes
Total Volume Solids (ASTM D-2697)	100%
VOCs (ASTM D-2369-81)	16 g/l
Flash Point	130°F (54°C)
Service Temperature	-22° to 176°F (-30° to 80°C) intermittent.

How to Use Surface Preparation	All substrate surfaces shall be clean, dry and sound. Acceptable substrates include: sound concrete and masonry. Reference separate System Data Sheet for specific surface preparation requirements.	
Mixing	Mix ratio is 1.6:1 (A:B) by volume. Add Part B into Part A and mix with mechanical mixer (Jiffy) at low speed Avoid adding air into the primer during mixing. When fully mixed, the primer should be free from streaks and of a uniform amber color. Do not break down kits into smaller quantities.	
	For leveling/sealing slurry, add 10 lbs. 20-40 mesh kiln-dried sand to mixed primer and mix with mechanical mixer (Jiffy) until a uniform consistency is achieved.	
Application	Apply by brush or phenolic resin core roller at the recommended rate. Correct amount of primer will saturate the substrate and leave a slight film on the substrate top surface. Apply evenly without puddling.	
	Apply slurry with flat-bladed squeegee or trowel.	
Removal	Remove wet primer with MEK, xylene, or oxygenated solvents. Once cured, primer can only be removed by mechanical means. Strictly follow solvent manufacturer's warnings and instructions for use.	
Over Painting	Allow primer to cure completely prior to applying membrane resin.	
	Full cure: 8 hours at 68°F.	
	Ideally, membrane resin will be applied within 24 hours of primer application. Maximum primer exposure is 3 days. Primer exposed longer than 3 days, and primer exposed to water during curing and exhibiting a chalky appearance, must be reprimed. Deteriorated primer must be mechanically removed before primer reapplication.	
Ka INS	DR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND IRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA ET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE- TMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR- TREDUCT DATA SUJECT PROPINED AND CATEFY DATA SUJECT DEPONDED TO PRODUCT AND FOLLOW.	

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#### Limitations

- To avoid dew point conditions during application, relative humidity must be no more than 95% and substrate temperature must be at least 5°F (3°C) above measured dew point temperatures.
- Minimum ambient and substrate temperature during application and curing of material is 41°F (5°C); maximum is 95°F (35°C). Surface temperatures must be no higher than 140°F (60°C).
- Do not apply on substrates with moisture content greater than 5% by weight, measured by Tramex[®] Concrete Moisture Encounter Meter.
- Minimum age of concrete must be 21-28 days depending on curing and drying conditions.
- Do not thin with solvents.
- Do not store materials outdoors exposed to sunlight and moisture for prolonged periods.
- Do not apply to substrate surfaces where moisture vapor transmission will occur during application and cure. This condition may be checked using ASTM D-4263 (Polyethylene Sheet method).
- Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Allow sufficient time for the substrate to dry after rain or inclement weather, as there is the potential for bonding problems.
- On substrates likely to exhibit outgassing apply during falling ambient and substrate temperature. If applied during rising temperature pinholing may occur.
- Precautions should be taken to prevent vapors and/or odors from entering the building/structure, including but not limited to turning off and sealing air intake vents and through-wall air conditioners, and other means of vapor/odor ingress during application and cure.
- Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various product solutions). Surface irregularities may reflect through the cured system.
- When applying over existing coatings or membranes compatibility and adhesion testing, subsequent approval by Technical Services is required.
- On grade concrete decks should not be covered with Sikalastic[®] membrane systems.
- Unvented metal pan, split/sandwich slab with encapsulated membrane and/or insulation, cinder fill decks, and lightweight insulating concrete overlays should not be covered with Sikalastic[®] membrane systems without additional deck evaluation and subsequent approval by Technical Services.
- Not recommended for metal substrates.

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Product Data Sheet Edition 6.23.2016 Sikalastic[®] EP Primer/Sealer





## Sikalastic[®] EP Primer/Sealer

Two component universal primer

Description	Sikalastic [®] Epoxy Primer consists of two components: an epoxy resin (Part A), and an activator (Part I In its wet mixed state, it is red in color.	
Where to Use	Suitable for use on most sound substrate surfaces where both a penetrative and surface-lying effect is required.	
Advantage	<ul><li>Low odor, low VOC formulation.</li><li>Compatible with most common substrate and flashing materials.</li></ul>	
Coverage	<ul> <li>250 ft²/gal on non-absorbent smooth substrates.</li> <li>200 ft²/gal on prepared, dry concrete.</li> <li>100 ft²/gal on mineral surfaced modified bitumen.</li> <li>Note: Rough, porous, or absorbent surfaces will require additional primer and will reduce yield.</li> </ul>	
Cure Mechanism	Chemical Cure.	
Chemical Resistance Not intended for direct exposure.		
Packaging	1 gal. kit (0.75 gal. Part A, 0.25 gal. Part B).	

Typical Data (Material and curing conditions @ 75°F (24°C) and 50% R.H.) RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life:	12 months in original, unopened and undamaged sealed containers.
Storage Conditions:	Store dry at 40°-95°F (2°-35°C).
Product Conditioning:	Condition material to $50^{\circ}$ - $77^{\circ}F$ ( $10^{\circ}$ - $25^{\circ}C$ ) before using for ease of application.
Pot Life:	1 hour
Total Volume Solids (ASTM D-2697)	92%
VOCs (ASTM D-2369-81)	72.05 g/l
Flash Point	130°F (54°C)
Service Temperature	-22° to 176°F (-30° to 80°C) intermittent.

All substrate surfaces shall be clean, dry and sound. Acceptable substrates include: sound concrete and ma- sonry, wood and plywood, modified bitumen membrane, mineralized asphaltic cap sheet, asphalt and asphalt mastic, ferrous metals, galvanized, lead, copper, aluminum, brass, and stainless steel. Reference separate System Data Sheet for specific surface preparation requirements.
Mix ratio is 3:1 (A:B) by weight and volume. Add Part B into Part A and mix with stir stick or mechanical mixer (Jiffy) at low speed. Avoid adding air into the primer during mixing. When fully mixed, the primer should be free from streaks and of a uniform red color. Do not break down kits into smaller quantities.
Apply by brush or phenolic resin core roller at the recommended rate. Correct amount of primer will saturate the substrate and leave a slight film on the substrate top surface. Apply evenly without puddling.
Remove wet primer with MEK, xylene, or oxygenated solvents. Once cured, primer can only be removed by mechanical means. Strictly follow solvent manufacturer's warnings and instructions for use.
Allow primer to cure completely prior to applying membrane resin. Full cure: 9 hours at 68°F. Ideally, membrane resin will be applied within 24 hours of primer application. Maximum primer exposure is 72 hours. Primer exposed longer than 72 hours, and primer exposed to water during curing and exhibiting a chalky appearance, must be reprimed. Deteriorated primer must be mechanically removed before primer reapplication.



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- To avoid dew point conditions during application, relative humidity must be no more than 95% and substrate temperature must be at least 5°F (3°C) above measured dew point temperatures.
- Minimum ambient and substrate temperature during application and curing of material is 41°F (5°C); maximum is 95°F (35°C). Surface temperatures must be no higher than 140°F (60°C).
- Do not apply on substrates with moisture content greater than 4% by weight, measured by Tramex[®] Concrete Moisture Encounter Meter.
- Minimum age of concrete must be 21-28 days depending on curing and drying conditions.
- Do not thin with solvents.
- Do not store materials outdoors exposed to sunlight and moisture for prolonged periods.
- Do not apply to substrate surfaces where moisture vapor transmission will occur during application and cure. This condition may be checked using ASTM D-4263 (Polyethylene Sheet method).
- Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Allow sufficient time for the substrate to dry after rain or inclement weather, as there is the potential for bonding problems.
- On substrates likely to exhibit outgassing apply during falling ambient and substrate temperature. If applied during rising temperature pinholing may occur.
- Precautions should be taken to prevent vapors and/or odors from entering the building/structure, including but not limited to turning off and sealing air intake vents and through-wall air conditioners, and other means of ingress during application and cure.
- Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various product solutions). Surface irregularities may reflect through the cured system
- When applying over existing coatings or membranes compatibility and adhesion testing, subsequent approval by Technical Services is required.
- On grade concrete decks should not be covered with Sikalastic[®] membrane systems.
- Unvented metal pan, split/sandwich slab with encapsulated membrane and/or insulation, cinder fill decks, and lightweight insulating concrete overlays should not be covered with Sikalastic® membrane systems without deck evaluation and subsequent approval by Technical Services.

RIOR TO EACH USE OF ANY SIKA PRODUCT. THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET. PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DE PARTMENT AT 800.933.7452 NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS FOR EACH SIKA PRODUCT AS SET FORTH IN THE CUR-RENT PRODUCT DATA SHEET. PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE

KEEP CONTAINER TIGHTLY CLOSED. KEEP OUT OF REACH OF CHILDREN. NOT FOR INTERNAL CONSUMPTION. FOR INDUSTRIAL USE ONLY. FOR PROFESSIONAL USE ONLY.

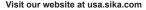
For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Depart-ment at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.

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Sika Canada Inc. 601 Delmar Avenue Pointe Claire Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792

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Product Data Sheet Edition 5.20.2014 Sika® Reactivation Primer

# Sika[®] Reactivation Primer

Polyurethane-based primer for use with Sikalastic 600 Series liquid applied membranes

Description	Sikalastic Reactivation Primer is a single component, polyurethane based primer for the reactivation of existing Sikalastic membranes prior to overcoating, repairing, or modifying. In its wet state, it is clear.
Where to Use	Suitable for use on Sikalastic 600 Series liquid applied membranes for localized repairs, roofing modifications, continuation of work, etc.
Advantages	Provides excellent adhesion of new Sikalastic liquid applied membrane to existing Sikalastic membrane. Quick cure allows same-day membrane application in most instances.
Coverage	250 sf/gal.
Cure Mechanism	Evaporative cure
Chemical Resistance	Not intended for direct exposure
Packaging	2 gal. pail

**Typical Data** (Material and curing conditions @ 73°F (23°C) and 50% R.H.) Results MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE,

APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life:	6 months in original, unopened and undamaged sealed containers.
Product Storage:	Store dry at 41-86°F (5-30°C).
Product Conditioning:	Condition material to 50-77°F (10-25°C) before using for ease of application.
Pot Life:	Indefinite
Total Volume Solids (ASTM D-2697):	64%
Density:	1.03 kg/l
VOCs (ASTM D-2369-81):	385 g/l
Flash Point:	108°F (42°C)
Service Temperature:	-22 to 176°F (-30 to 80°C) intermittent



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	How to Use Surface Preparation	Clean existing membrane thoroughly by power washing. Remove all chalking, dirt and any other physical or chemical contaminants prior to priming. Mechanical scrubbing and the use of a biocide-detergent may be required. Rinse all contaminants and detergent residue off of the membrane surface and allow to dry thoroughly.
	Mixing	Mixing is not required
	Application	Apply by brush or phenolic resin core roller at the recommended rate. Correct amount of primer will leave a slight film on the membrane top surface. Apply evenly without puddling.
	Removal	Remove wet primer with MEK, xylene or oxygenated solvents and a clean cloth. Once cured, primer can only be removed by mechanical means. Strictly follow solvent manufacturer's warnings and instructions for use.
	Over Painting	Allow primer to cure completely tack free prior to applying membrane resin. 4 hours at 68°F 6 hours at 37°F Ideally, membrane resin will be applied within 24 hours of primer application. Maximum primer exposure is 48 hours. Primer exposed longer than 48 hours, and primer exposed to water during curing and exhibiting a chalky appearance, must be reprimed. Deteriorated primer must be mechanically removed before primer reapplication.
Construction	Limitations	<ul> <li>To avoid dew point conditions during application, relative humidity must be no more than 95% and substrate temperature must be at least 5°F (3°C) above measured dew point temperatures.</li> <li>Minimum ambient and substrate temperature during application and curing of material is 41°F (5°C); maximum is 86°F (30°C).</li> <li>Do not thin with additional solvents.</li> <li>Do not store materials outdoors exposed to sunlight and moisture for prolonged periods.</li> <li>Existing membrane must be dry prior to application. Do not apply to a frosted, wet or damp surface. Allow sufficient time for the membrane to dry after rain or inclement weather, as there is the potential for bonding problems.</li> <li>Sikalastic Recoat Primer is not UV-stable; recoat with Sikalastic resin within 48 hours.</li> <li>Precautions should be taken to prevent vapors and/or odors from entering the building/ structure, including but not limited to turning off and sealing air intake vents and throughwall air conditioners, and other means of vapor/odor ingress during application and cure.</li> </ul>
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SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.

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# **G** - Building Envelope

Sikagard 530	G10
Sikagard 535	G20
Sika Membran 540	G30
SikaMultiSeal Plus	G40
Sikagard 510	usa.sika.com
SikaMultiSeal 515	usa.sika.com



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Product Data Sheet Edition 12.6.2013 Sikagard 530

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# Sikagard[®] 530

Liquid Applied Acrylic Vapor Permeable Air Barrier

escription			
-	Sikagard 530 Liquid Applied Acrylic Vapor Permeable Air Barrier is a low VOC, sin- gle-component liquid applied, elastomeric membrane designed to provide a vapor permeable air and water barrier when applied to above-grade wall assemblies. It is acrylic-based and cures to a tough monolithic rubber-like membrane that resists air leakage and water penetration when applied to plywood and gypsum sheathing, concrete and concrete masonry units.		
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dvantages	- · ·		
	<ul><li>Meets industry performance</li><li>Low surface burning charact</li></ul>	standards to control air movement.	
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PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800-933-7452. NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTION FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

	Solids by Weight:	64 % 52% +/- 2%
	Solids by Volume: Vehicle Base:	Acrylic
	Solvent:	Water
	Clean up:	Warm soapy water
Coverage	Apply at a rate of 2.5 gallor film thickness of 40 mils.	ns per 100 ft² (40 sf per gallon) to achieve a uniform wet
Packaging	5 gallon pails, 55 gallon dr	Jms
How to Use		
Surface Preparat	grease, oil, contaminants of adhesion of the liquid appli Surfaces should be sound, concrete should be cured f Applied Acrylic Vapor Perm precast concrete, cast-in p mill finish, anodized alumin between panels of exterior shall be treated with a 1/16 application of Sikaflex 11fc grade gypsum or plywood of SikaMultiSeal 515 Self-A applied to a substrate prim a 10mil thick application of Sheet for further installatio flush. Cracks in masonry and cor a cap bead application of S and concrete up to 1/8 inch	lean, dry and free of frost, dirt, dust, loose concrete, or other foreign matter that may adversely affect the ed vapor permeable air and water barrier membrane. free of voids, gaps, breaks and spalled areas. New or a minimum of 7 days before Sikagard 530 Liquid neable Air Barrier is applied. Acceptable substrates are lace concrete, concrete block, primed steel, aluminum num, galvanized metal, gypsum board and wood. Joints grade gypsum and plywood up to 1/4 inch (6 mm) wide b inch (3 mm) deep x 3/4 inch (19 mm) wide cap bead Liquid Seam Sealant. Joints between panels of exterior wider than 1/4 inch (6 mm) shall be sealed with a strip Adhered Transition Seam Tape aligned over the joint and ed with Sikagard 510 Transition Seam Tape Primer or Sikagard 530 (refer to SikaMultiSeal 515 Product Data in recommendations). Strike masonry mortar joints full
	of the liquid air barrier men repointed. Transition joints between d door frames and openings. Self-Adhered Transition Se substrate. Provide minimur adjacent surface. Apply Sil 530 applied at 40 mils thick tiSeal 515. Mechanical fas sheathing boards prior to m	e and allowed to cure overnight prior to field application nbrane to surface. Cracks wider than 1/4 inch should be issimilar materials at beams, columns, window and etc., should be sealed with a strip of SikaMultiSeal 515 eam Tape aligned over the joint and applied to a primed m of 2 1/2 inches (63 mm) of membrane bearing on each caflex 11fc Liquid Seam Sealant or coating of Sikagard kness over the edge along the perimeter of SikaMul- teners used to secure sheathing boards or penetrate membrane application shall be set flush with sheathing lid backing. Thinning of the liquid membrane is not per-
Mixing	Stir liquid membrane thoro	ughly prior to application.
Application	brush, roller or spray. Applic single or dual-coat applicati brane in a continuous, mon of permeable air and water mil thickness and avoid creatings and mechanical penetri	A Acrylic Vapor Permeable Air Barrier may be applied by cation by conventional air assisted spray equipment in a on is the preferred method. Apply liquid air barrier mem- olithic application pattern to achieve a uniform coating barrier membrane. Monitor applications to measure wet ating sags or runs. Pretreat outside corners, wall open- rations with SikaMultiSeal 515 Self-Adhered Transition r barrier membrane to fully cover transition membrane
ka®	INSTRUCTIONS ON THE PRODUCT'S MU WHICH ARE AVAILABLE ONLINE AT HT AT 800-933-7452. NOTHING CONTAIN AND FOLLOW THE WARNINGS AND IN	RODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND DST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET TP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT ED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ STRUCTION FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT IFETY DATA SHEET PRIOR TO PRODUCT USE.

	Tie-in to structural beams, columns, floor slabs and intermittent floors, parapet curbs, foundation walls, roofing systems and at the interface of dissimilar materials with SikaMultiSeal 515 Self-Adhered Transition Seam Tape and or approved flash- ing membrane. Mark areas off and ensure that the appropriate volume has been applied over each area. During spraying, the product should be applied in horizontal strokes, then vertical strokes in a cross-hatch method to ensure even application. Spray applications must be immediately back-rolled. Protect wall areas covered with Sikagard 530 Liquid Applied Acrylic Vapor Perme- able Air Barrier from damage due to construction activities, high wind conditions, and extended exposure to inclement weather. Review condition of Sikagard 530 Liquid Applied Acrylic Vapor Permeable Air Barrier prior to installation of cladding. Ai Repair, or remove and replace damaged sections with new membrane. Recommend to cap and protect exposed back-up walls against wet weather conditions during and after application of membrane, including wall openings and construction activity above completed water-resistive vapor permeable air barrier installations.
Limitations	Apply at temperatures over 40°F (4°C). Do not apply when rain is forecast within the next 12 hours. Limit exposure to no greater than 6 months.
Caution	<b>CAUTION: IRRITANT.</b> Contains Propyleneglycol (CAS: 57-55-6), titanium dioxide (CAS: 13463-67-7) and glass, oxide, chemicals (CAS:65997-17-3). May cause eye/ skin/respiratory irritation. May cause gastrointestinal disturbance if swallowed.
First Aid	<b>Eyes</b> – Hold eyelids apart and flush thoroughly with water for 15 minutes. <b>Skin</b> – Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. <b>Inhalation</b> – Remove to fresh air. <b>Ingestion</b> – Do not induce vomiting. Dilute with water. Contact physician. <b>In all cases contact a physician immediately if symptoms persist.</b>
Handling and Storage	Avoid direct contact. Wear personal protective equipment (chemical resistant goggles/gloves/clothing) to prevent direct contact with skin and eyes. Use only in well ventilated areas. Open doors and windows during use. Use a properly fitted NIOSH respirator if ventilation is poor. Wash thoroughly with soap and water after use. Remove contaminated clothing and launder before reuse.
Cleanup	Use personal protective equipment (chemical resistant gloves/goggles/clothing). Without direct contact, sweep up spilled or excess product and place in suitable sealed container. Dispose of excess product and container in accordance with ap- plicable local, state, and federal regulations.

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Product Data Sheet Edition 7.25.2014 Sikagard 535

### **Sikagard® 535** Liquid Applied Acrylic Vapor Permeable Air Barrier

Description	cription Sikagard 535 Liquid Applied Acrylic Vapor Permeable Air Barrier is a low VO single-component liquid applied, elastomeric membrane designed to provide a por permeable air and water barrier when applied to above-grade wall assemblie It is acrylic-based and cures to a tough monolithic rubber-like membrane that resis air leakage and water penetration when applied to plywood and gypsum sheathir concrete and concrete masonry units.	
Where to UseTo be used in conjunction with SikaMultiSeal® 515 Self-Adhered Transition Seam and Sikaflex® 11FC. Acceptable substrates are above grade exterior wall subst including precast concrete, cast-in place concrete, concrete block, primed steel minum mill finish, anodized aluminum, galvanized metal, gypsum board and we		
Advantages	<ul> <li>Easy to install, cost effective spray equipment.</li> <li>UV Stable for 6 month explored water vapor permeance at Excellent adhesion to com Meets industry performan</li> </ul>	embrane for above grade wall applications. We brush, roller or spray application using common posure. Illows wall assemblies to dry out. Inmon construction surfaces. ce standards to control aimovement. acteristics as appropriate for compliance with NFPA
Coverage	Apply at a rate of 100 sf per ga	llon to achieve a uniform wet film thickness of 16 mils.
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Packaging	5 gallon pails, 55 gallon drums Typical Data ( <i>Material and curing co</i> RESULTS MAY DIFFER BASED UPON STATISTICAL W	
Packaging	5 gallon pails, 55 gallon drums Typical Data ( <i>Material and curing co</i> RESULTS MAY DIFFER BASED UPON STATISTICAL W	ARIATIONS @ 73°F (23°C) and 50% R.H.) ARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, ETHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Store in original containers. Store dry at 40°F - 90°F (4°C - 35°C), do not allow product to freeze. 2 years in unopened containers. 0.0001 12 perms Pass Pass Pass 100% 175 psi Sets to Touch: 6 - 12 hours
Packaging	5 gallon pails, 55 gallon drums Typical Data (Material and curing co RESULTS MAY DIFFER BASED UPON STATISTICAL V TEMPERATURE, APPLICATION METHODS, TEST MI Storage: Shelf Life: Air Permeance ASTM E2178 (CFM/ft2): WVP ASTM E 96B: Water Resistance AATCC 127: Fastener Sealability D1970: Elongation at break ASTM D412: Tensile Strength ASTM D412:	ARIATIONS @ 73°F (23°C) and 50% R.H.) ARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, ETHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS. Store in original containers. Store dry at 40°F - 90°F (4°C - 35°C), do not allow product to freeze. 2 years in unopened containers. 0.0001 12 perms Pass Pass Pass 100% 175 psi

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	How to Use	
	Surface Preparation	Surfaces must be sound, clean, dry and free of frost, dirt, dust, loose concrete, grease, oil, contaminants or other foreign matter that may adversely affect the adhesion of the liquid applied vapor permeable air and water barrier membrane. Surfaces should be sound, free of voids, gaps, breaks and spalled areas. New concrete should be cured for a minimum of 14 days before Sikagard 535 Liquid Applied Acrylic Vapor Permeable Air Barrier is applied. Acceptable substrates are precast concrete, cast-in place concrete, concrete block, primed steel, aluminum mill finish, anodized aluminum, galvanized metal, gypsum board and wood. Joints between panels of exterior grade gypsum and plywood up to 1/4 inch (6 mm) wide shall be treated with a 1/16 inch (3 mm) deep x 3/4 inch (19 mm) wide cap bead application of Sikaflex 11FC. Joints between panels of exterior grade gypsum or plywood wider than 1/4 inch (6 mm) shall be sealed with a strip of SikaMultiSeal 515 Self-Adhered Transition Seam Tape aligned over the joint and applied to a substrate primed with Sikagard 510 Transition Seam Tape Primer. Apply sufficient pressure to self-adhered transition seam tape to ensure adhesion to substrate. Strike masonry mortar joints full flush. Cracks in masonry and concrete up to 1/4 inch (6 mm) wide shall be sealed with a cap bead application of Sikaflex 11FC. Cracks in masonry and concrete up to 1/8 inch (3 mm) wide may be filled with a trowel application of liquid air barrier mem- brane and allowed to cure overnight prior to field application of the liquid air barrier membrane to surface. Cracks wider than 1/4 inch should be repointed.
		Transition joints between dissimilar materials at beams, columns, window and door frames, etc., should be sealed with a strip of SikaMultiSeal 515 Self-Adhered Transition Seam Tape aligned over the joint and applied to a substrate primed with Sikagard 510 Transition Seam Tape Primer. Apply sufficient pressure to self- adhered transition seam tape to ensure adhesion to substrate. Provide minimum of 2 1/2 inches (63 mm) of membrane bearing on each adjacent surface. Mechanical fasteners used to secure sheathing boards or penetrate sheathing boards prior to membrane application shall be set flush with sheathing board and fastened into solid backing. Thinning of the liquid membrane is not permitted.
2	Mixing	Stir liquid membrane thoroughly prior to application.
	Application	Sikagard 535 Liquid Applied Acrylic Vapor Permeable Air Barrier may be applied by brush, roller or spray. Application by conventional air assisted spray equipment in a single or dual-coat application is the preferred method. Apply liquid air barrier membrane in a continuous, monolithic application pattern to achieve a uniform coating of permeable air and water barrier membrane. Monitor applications to measure wet mil thickness and avoid creating sags or runs. Pretreat outside corners, wall open- ings and mechanical penetrations with SikaMultiSeal 515 Self-Adhered Transition Seam Tape. Apply liquid air barrier membrane to fully cover transition membrane applications.
		Tie-in to structural beams, columns, floor slabs and intermittent floors, parapet curbs, foundation walls, roofing systems and at the interface of dissimilar materials with SikaMultiSeal 515 Self-Adhered Transition Seam Tape and or approved flash- ing membrane.
		Mark areas off and ensure that the appropriate volume has been applied over each area. During spraying, the product should be applied in horizontal strokes, then vertical strokes in a cross-hatch method to ensure even application. Spray applications must be immediately back-rolled. Protect wall areas covered with Sikagard 535 Liquid Applied Acrylic Vapor Perme- able Air Barrier from damage due to construction activities, high wind conditions, and extended exposure to inclement weather. Review condition of Sikagard 535
~		Liquid Applied Acrylic Vapor Permeable Air Barrier prior to installation of cladding. Repair, or remove and replace damaged sections with new membrane. Recom- mend to cap and protect exposed back-up walls against wet weather conditions during and after application of membrane, including wall openings and construction activity above completed water-resistive vapor permeable air barrier installations.
Jfl	ka ®	PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE DEPARTMENT AT 800-933-7452. NOTHING CONTAINED IN ANY SIKA MATERIALS RELIEVES THE USER OF THE OBLIGATION TO READ AND FOLLOW THE WARNINGS AND INSTRUCTION FOR EACH SIKA PRODUCT AS SET FORTH IN THE CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.



Limitations	<ul> <li>Minimum age of SikaTop or MonoTop prior to application is three days, depending on curing and drying conditions (moisture content must be below 5%)</li> <li>Sikagard 535 should not be applied at relative humidity greater than 90%, or if</li> </ul>
	rain is forecast within the specified rain resistance period
	When over-coating existing coatings, compatibility and adhesion testing is recommended
	Do not store Sikagard 535 in direct sunlight for prolonged periods
	Strong winds can cause shrinkage if material is applied at lower temperatures
	Not recommended for roofing

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Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT HTTP://USA.SIKA.COM/ OR BY CALLING 201-933-8800.

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Sika Canada Inc. 601 Delmar Avenue Pointe Claire Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792 nearest Sika sales office, contact your regional cente **Sika Mexicana S.A. de C.V.** Carretera Libre Celaya Km. 8.5 Fracc. Industrial Balvanera



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**Product Data Sheet** Edition 09.10.2015 SikaMembran®-540

# SikaMembran[®]-540

Self-Adhesive Air / Vapor Barrier

Description				
	SikaMembran-540 is a self-adhering sheet membrane consisting of an engineered block-copolymer adhesive on a durable, conformable polypropylene film. The membrane is designed to be adhered to a variety of substrates and is available in rolls of various widths which may be used for full wall applications or as a penetration/flashing membrane used with other Sika air barrier systems.			
Where to Use	SikaMembran-540 is designed to be used in above-grade wall assemblies including concrete, concrete masonry units (CMU), plywood, OSB and exterior gypsum sheathing. Other applications include transition tape application for door, window and other openings and to connect the air barrier to the door, window or other penetration.			
Advantages	<ul> <li>Fully bonded</li> <li>Waterproof and airtight</li> <li>Excellent adhesion to a var</li> <li>Compatible with Sikagard li</li> <li>Tough film that resists punct</li> <li>Conforms to irregular surface</li> <li>Passes E 2178</li> </ul>	to a variety of substrates kagard liquid air barriers sts punctures and tears		
Packaging	36" width by 75 ft. roll, 1 roll per box 18" width by 75 ft. roll, 2 rolls per box 12" width by 75 ft. roll, 3 rolls per box 6" width by 75 ft. roll, 6 rolls per box 4" width by 75 ft. roll, 9 rolls per box			
	····, ···			
	Typical Data (Material and curing cond	ditions @ 74°F (22°C) and 40% R.H.)		
	RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDI- TIONS AND CURING CONDITIONS.			
	AND EQUIPMENT, TEMPERATURE, APPLICATION			
	AND EQUIPMENT, TEMPERATURE, APPLICATION	I METHODS, TEST METHODS, ACTUAL SITE CONDI-		
	AND EQUIPMENT, TEMPERATURE, APPLICATION TIONS AND CURING CONDITIONS.			
	AND EQUIPMENT, TEMPERATURE, APPLICATION TIONS AND CURING CONDITIONS. Storage:	I METHODS, TEST METHODS, ACTUAL SITE CONDI- Store pallets under cover at temperatures between 40°F and 100°F		
	AND EQUIPMENT, TEMPERATURE, APPLICATION TIONS AND CURING CONDITIONS. Storage: Shelf Life:	I METHODS, TEST METHODS, ACTUAL SITE CONDI- Store pallets under cover at temperatures between 40°F and 100°F 1 year in original packaging at recommended storage conditions		
	AND EQUIPMENT, TEMPERATURE, APPLICATION TIONS AND CURING CONDITIONS. Storage: Shelf Life: Application Temperature Range:	I METHODS, TEST METHODS, ACTUAL SITE CONDI- Store pallets under cover at temperatures between 40°F and 100°F 1 year in original packaging at recommended storage conditions min. 40°F and rising		
	AND EQUIPMENT, TEMPERATURE, APPLICATION TIONS AND CURING CONDITIONS. Storage: Shelf Life: Application Temperature Range: Service Temperature Range:	METHODS, TEST METHODS, ACTUAL SITE CONDI- Store pallets under cover at temperatures between 40°F and 100°F 1 year in original packaging at recommended storage conditions min. 40°F and rising min20°F max. 150°F		
	AND EQUIPMENT, TEMPERATURE, APPLICATION TIONS AND CURING CONDITIONS. Storage: Shelf Life: Application Temperature Range: Service Temperature Range: Maximum Exposure to UV: Thickness: Air Permeance (ASTM E 2178)	METHODS, TEST METHODS, ACTUAL SITE CONDI- Store pallets under cover at temperatures between 40°F and 100°F 1 year in original packaging at recommended storage conditions min. 40°F and rising min20°F max. 150°F Cover within 60 days 8 mils pass(<0.001 cfm)		
	AND EQUIPMENT, TEMPERATURE, APPLICATION TIONS AND CURING CONDITIONS. Storage: Shelf Life: Application Temperature Range: Service Temperature Range: Maximum Exposure to UV: Thickness: Air Permeance (ASTM E 2178) Resistance to Puncture (ASTM E 154)	METHODS, TEST METHODS, ACTUAL SITE CONDI- Store pallets under cover at temperatures between 40°F and 100°F 1 year in original packaging at recommended storage conditions min. 40°F and rising min20°F max. 150°F Cover within 60 days 8 mils pass(<0.001 cfm) >40 lb _r		
	AND EQUIPMENT, TEMPERATURE, APPLICATION TIONS AND CURING CONDITIONS. Storage: Shelf Life: Application Temperature Range: Service Temperature Range: Maximum Exposure to UV: Thickness: Air Permeance (ASTM E 2178) Resistance to Puncture (ASTM E 154) Tensile Strength (ASTM D 882)	METHODS, TEST METHODS, ACTUAL SITE CONDI- Store pallets under cover at temperatures between 40°F and 100°F 1 year in original packaging at recommended storage conditions min. 40°F and rising min20°F max. 150°F Cover within 60 days 8 mils pass(<0.001 cfm) >40 lb _r 20lb _r /in. (break factor) (Tensile Strength 2,000 psi)		
	AND EQUIPMENT, TEMPERATURE, APPLICATION TIONS AND CURING CONDITIONS. Storage: Shelf Life: Application Temperature Range: Service Temperature Range: Maximum Exposure to UV: Thickness: Air Permeance (ASTM E 2178) Resistance to Puncture (ASTM E 154) Tensile Strength (ASTM D 882) Elongation (ASTM D 882)	METHODS, TEST METHODS, ACTUAL SITE CONDI- Store pallets under cover at temperatures between 40°F and 100°F 1 year in original packaging at recommended storage conditions min. 40°F and rising min20°F max. 150°F Cover within 60 days 8 mils pass(<0.001 cfm) >40 lb, 20lb/in. (break factor) (Tensile Strength 2,000 psi) 400%		
	AND EQUIPMENT, TEMPERATURE, APPLICATION TIONS AND CURING CONDITIONS. Storage: Shelf Life: Application Temperature Range: Service Temperature Range: Maximum Exposure to UV: Thickness: Air Permeance (ASTM E 2178) Resistance to Puncture (ASTM E 154) Tensile Strength (ASTM D 882) Elongation (ASTM D 882) Water Resistance (AATCC 127)	METHODS, TEST METHODS, ACTUAL SITE CONDI- Store pallets under cover at temperatures between 40°F and 100°F 1 year in original packaging at recommended storage conditions min. 40°F and rising min20°F max. 150°F Cover within 60 days 8 mils pass(<0.001 cfm) >40 lb _r 20lb _r /in. (break factor) (Tensile Strength 2,000 psi) 400% pass		
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	AND EQUIPMENT, TEMPERATURE, APPLICATION TIONS AND CURING CONDITIONS. Storage: Shelf Life: Application Temperature Range: Service Temperature Range: Maximum Exposure to UV: Thickness: Air Permeance (ASTM E 2178) Resistance to Puncture (ASTM E 154) Tensile Strength (ASTM D 882) Elongation (ASTM D 882) Elongation (ASTM D 882) Water Resistance (AATCC 127) Peel Strength (ASTM D 903) Lap Adhesion (ASTM D 3330)	METHODS, TEST METHODS, ACTUAL SITE CONDI-         Store pallets under cover at temperatures between 40°F and 100°F         1 year in original packaging at recommended storage conditions         min. 40°F and rising         min20°F max. 150°F         Cover within 60 days         8 mils         pass(<0.001 cfm)         >40 lb _r 20lb/in. (break factor) (Tensile Strength 2,000 psi)         400%         pass         Concrete = 5.5 lb/in. Fiberglass Sheathing = 6.0 lb/in.         Concrete = 2.0 lb/in. Fiberglass Sheathing = 2.5 lb/in.		
	AND EQUIPMENT, TEMPERATURE, APPLICATION TIONS AND CURING CONDITIONS. Storage: Shelf Life: Application Temperature Range: Service Temperature Range: Maximum Exposure to UV: Thickness: Air Permeance (ASTM E 2178) Resistance to Puncture (ASTM E 154) Tensile Strength (ASTM D 882) Elongation (ASTM D 882) Elongation (ASTM D 882) Water Resistance (AATCC 127) Peel Strength (ASTM D 903) Lap Adhesion (ASTM D 1876)	METHODS, TEST METHODS, ACTUAL SITE CONDI-         Store pallets under cover at temperatures between 40°F and 100°F         1 year in original packaging at recommended storage conditions         min. 40°F and rising         min20°F max. 150°F         Cover within 60 days         8 mils         pass(<0.001 cfm)         >40 lb,         20lb/in. (break factor) (Tensile Strength 2,000 psi)         400%         pass         Concrete = 5.5 lb/in. Fiberglass Sheathing = 6.0 lb/in.         Concrete = 2.0 lb/in. Fiberglass Sheathing = 2.5 lb/in.         7.0 lb/in.		
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	AND EQUIPMENT, TEMPERATURE, APPLICATION TIONS AND CURING CONDITIONS. Storage: Shelf Life: Application Temperature Range: Service Temperature Range: Maximum Exposure to UV: Thickness: Air Permeance (ASTM E 2178) Resistance to Puncture (ASTM E 154) Tensile Strength (ASTM D 882) Elongation (ASTM D 882) Water Resistance (AATCC 127) Peel Strength (ASTM D 903) Lap Adhesion (ASTM D 1330) Lap Adhesion (ASTM D 1876) Low Temperature Flexibility (ASTM D 1970) Self Sealability (ASTM D 1970)	A METHODS, TEST METHODS, ACTUAL SITE CONDI-         Store pallets under cover at temperatures between 40°F and 100°F         1 year in original packaging at recommended storage conditions         min. 40°F and rising         min20°F max. 150°F         Cover within 60 days         8 mils         pass(<0.001 cfm)         >40 lb,         20lb/in. (break factor) (Tensile Strength 2,000 psi)         400%         pass         Concrete = 5.5 lb/in. Fiberglass Sheathing = 6.0 lb/in.         Concrete = 2.0 lb/in. Fiberglass Sheathing = 2.5 lb/in.         7.0 lb/in.         pass         pass         Fiberglass Sheathing = 16 lb/in.		
	AND EQUIPMENT, TEMPERATURE, APPLICATION TIONS AND CURING CONDITIONS. Storage: Shelf Life: Application Temperature Range: Service Temperature Range: Maximum Exposure to UV: Thickness: Air Permeance (ASTM E 2178) Resistance to Puncture (ASTM E 154) Tensile Strength (ASTM D 882) Elongation (ASTM D 882) Elongation (ASTM D 882) Water Resistance (AATCC 127) Peel Strength (ASTM D 903) Lap Adhesion (ASTM D 1330) Lap Adhesion (ASTM D 1876) Low Temperature Flexibility (ASTM D 1970) Self Sealability (ASTM D 1970) Pull Adhesion (ASTM D 4541)	A METHODS, TEST METHODS, ACTUAL SITE CONDI-         Store pallets under cover at temperatures between 40°F and 100°F         1 year in original packaging at recommended storage conditions         min. 40°F and rising         min20°F max. 150°F         Cover within 60 days         8 mils         pass(<0.001 cfm)		



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How to Use			
Surface Preparation	Acceptable substrates include concrete, concrete masonry units, primed steel, alu minum, mill finish, anodized aluminum, galvanized metal, exterior gypsum board and wood. Primer may be required for CMU or if adhesion is inadequate on substrates due to surface conditions beyond the control of the installer. Sika Latex R may be used for priming if required.		
	Surfaces must be sound, clean, dry and free of frost, dirt, dust, loose concrete, grease oil, contaminants or other foreign matter that may adversely affect the adhesion of the membrane. Surfaces should be free of voids, gaps, breaks and spalls. New concrete should cure a minimum of 7 days, masonry mortar joints should be full and flush holes or cracks greater than ¼" should be filled in with an appropriate mortar if static or with a suitable sealant or filler if required to move. Gypsum, plywood and OSE sheathing boards shall be properly fastened, flush at the joints with gaps according to building codes and sheathing board manufacturer.		
	Moisture content should be checked using a Tramex [®] moisture meter with a 4% maximum allowable measurement.		
Application	Horizontal applications should start at the bottom and proceed upward, offset verti- cal seams 12". Vertical applications should start at the top and unroll the membrane down the wall, offset horizontal seams 12". Lap at all seams should be 2". Sequence the installation, including detailing at wall openings such as windows and doors, to provide a continuous install with shingled laps.		
	Cut membrane to a manageable length and position for alignment. Remove protective film and press firmly into place avoiding wrinkles and air pockets. Go over recently installed sheet with a hand roller in order to ensure continuous and intimate contact with the substrate.		
	For masonry ties and anchors use the 18" wide sheet. Run the upper edge of the membrane along the underside of the tie or anchor. Working up the wall, install the next sheet in a similar manner. The 18" membrane will overlap the membrane below by 2" and will require a slot or cut at each tie or anchor at the bottom of the sheet in order to be fully laid in place. Seal the penetration using Sikaflex 11fc.		
	Seal leading edges susceptible to moisture ingress such as non water leading edges and edges resulting from partially completed walls at the end of a day, with Sikaflex 11fc.		
	Coordinate installation with the roofing trade to ensure continuity between the roof and air barrier systems.		
	Protect membrane from damage and do not cover until inspected according to the project requirements. Make repairs to the membrane using SikaMembran-540. Extend beyond the damage by at least 3". Seal the edges of the patch with Sikaflex 11fc.		
	Adhesion tests should be carried out before the project install commences and should be checked periodically at least once per day on each substrate type throughout the project installation to verify proper adhesion and application.		
Limitations	<ul> <li>SikaMembran-540 is a vapor barrier. Design professional shall determine appropriate use in project wall assemblies.</li> </ul>		
	<ul> <li>Maximum permitted exposure is 60 days.</li> </ul>		
	Do not install on roofs.		



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Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Technical Data Sheet, product label and Material Safety Data Sheet which are available online at <u>www.sikausa.com</u> or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Technical Data Sheet, product label and Material Safety Data Sheet prior to product use. LIMITED WARRANTY: Sika warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Technical Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor: NOOTHER WARRANTES EXPRESS OR IMPLIED SHALL APPLYINCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR APARTICULAR PURPOSE.SIKASHALLNOTBELIABLEUNDERANYLEGALTHEORYFORSPECIALORCONSEQUENTIALDAMAGES.SIKASHALLNOTBERESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. Visit our website at www.sikausa.com

Regional Information and Sales Centers. For the location of your nearest Sika sales office, contact your regional center

Sika Corporation 201 Polito Avenue Lyndhurst, NJ 07071 Phone: 800-933-7452 Fax: 201-933-6225

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Sika Canada Inc. 601 Delmar Avenue Pointe Claire Quebec H9R 4A9 Phone: 514-697-2610 Fax: 514-694-2792

Sika Mexicana S.A. de C.V. Carretera Libre Celava Km. 8.5 Fracc. Industrial Balvanera Corregidora, Queretaro C.P. 76920 Phone: 52 442 2385800 Fax: 52 442 2250537

1-800-933-SIKA NATIONWIDE

Ŷ RESPONSIBLE CARE

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# Sika[®] MultiSeal Plus

High Tack Ethylene Propylene Copolymer Self-Adhering Tape and Flashing Sheet with UV Resistant TPO Top Film Membrane

**Technical Product Data (typical values)** *Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

Chemical base		Ethylene Propylene Copolymer
Mastic Color		Gray
UV Resistant TPO Top-Film Membrane Colors		White, Gray
Total Thickness		37 mil (nominal) (TPO Top-Film Membrane Thickness = 5 mil)
Total solids (ASTM C 771)		100 %
Penetration (ASTM D 217) (mastic only) +/- 2°F/ 300 gr.	cone at 77°F	84 to 110 (8.4 to 11.0 mm)
Flexibility (ASTM C 765)		No cracking or loss of adhesion at - 22°F (-30°C) when bent around 3/8" mandrel (9.5mm)
Elongation ¹ (ASTM D-412)		700 % minimum
Membrane Tensile Strength (ASTM D412)		3800 psi
Vehicle bleed out (ASTM C 772)	158°F (70°C) for 21 days	No exudation of vehicle on Whatman No.40 filter paper.
Tensile adhesive strength ¹ (ASTM C 907)		13 psi (typical failure mode 100% cohesive)
Measured Flow (ASTM D5147)		Pass
Low Temperature Flexibility -22°F (30°C) (CGSB 37-	GP-56M)	Pass
Moisture Absorption (ASTM D903)		Pass (1g absorption)
Application Temperature	Standard Applications Thru-Wall Applications	40°F to 90°F (4°C to 32°C) 25°F to 90°F (-4°C to 32°C)
Adhesion to Concrete (ASTM D903)		6 lbf/in
Adhesion to DensGlass [®] Gold (ASTM D903)		6 lbf/in
Weatherability (ASTM G 53) (1000 h exposure)		Excellent condition; no loss of adhesion flexibility or softness, no loss of rubbery characteristics.
Service temperature	permanent	-22°F to 180°F (-30°C to 82°C)
Shelf life (storage below 80°F (27°C))		18 months
77°E (25°C)		

¹⁾ 77°F (25°C)

### Description

Sika[®] MultiSeal Plus Ethylene Propylene Copolymer Tape and Flashing Sheet is a high performance, industrial grade selfadhered tape & flashing sheet. Sika[®] MultiSeal Plus consists of a non-release UV resistant TPO top film membrane laminated to at high tack, non-drying and non-hardening reinforced rubber compound with inert inorganic, non-asbestos fillers. It is specially designed for use as a waterproof barrier and thru-wall flashing membrane.

Sika MultiSeal[®] has superior weathering characteristics and retains adhesion and elasticity for prolonged periods. Sika[®] MultiSeal Plus is manufactured in accordance with ISO 9001 / 14001 quality assurance system and the Responsible Care Program.

### **Product Benefits**

- Very tacky adhesion
- Good green strength
- Adheres to a variety of substrates
- Low VOC's
- Almost odorless
- Can be laminated to a variety of substrates for diverse applications
- Wide temperature service range
   Tough, durable tear-resistant, UV
- resistance, flexible membrane - Priming is not required on
- concrete or Densglass[®] Gold

Sika[®] MultiSeal Plus 1/3



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### Areas of Application

Sika[®] MultiSeal Plus Tape & Flashing Sheet is specifically formulated to seal joints and provide a waterproof barrier when applied prepared substrates. over Acceptable substrates include EPDM, TPO, metals, Kynar steel, and substrates typically found on trailers, RV's. trucks. metal buildings, storage tanks, HVAC cabinets and duct work. Sika  $^{\!\!\mathrm{R}}$  This product is not recommended for sealing PVC sheeting. MultiSeal Plus Tape & Flashing Sheet is also intended to be used as a thru-wall flashing membrane in cavity wall construction when used in conjunction with Sikagard 530 and other Sika Liquid Applied Vapor Permeable Air Barrier Systems. product is suitable for This experienced professional users only. Tests with actual substrates and conditions have to be performed by the end user to ensure adhesion, function, durability, and material compatibility. Applications involving water immersion may require special substrate pre-treatment. See the Limitation section.

### **Chemical Resistance**

Excellent resistance to water, ozonated water, water vapor and alcohols. Fair to weak resistance for acids and bases. Poor resistance to organic solvents. The above information is offered for general guidance only. Advice on specific applications will be given on request.

### **Method of Application**

### Repair Tape

Specific advise on use as a repair tape only is available from the Technical Service Department of Sika Industry at tsmh@sika.us.com.

### Thru-Wall Application

Acceptable substrates are precast concrete, cast-in place concrete,



Sika[®] MultiSeal Plus Tape & Flashing Sheet is designed for permanent exposure and may be installed direct to concrete or Densglass Gold without the aid of primers other or surface conditioners. Alternatively, Sikagard[®] 510 or Sikagard[®] 530 may be used for priming. Applications to wood require the use of Sikagard[®] 510 or Sikgard[®] 530 as a primer. Material should be conditioned at room temperature for ease of application. Cut the desired length of Sika[®] MultiSeal Plus Tape & Flashing Sheet, remove release paper, position into place and apply positive pressure using a roller. Use care to avoid blisters or wrinkles. Overlap all joints by 2 inches. Keep Sika[®] MultiSeal Plus Tape & Flashing Sheet back about 1/2 inch from outside face of wall or veneer. At all laps, seams, penetrations, and along top edges of membrane apply a continuous bead of Sikaflex®-11 FC sealant as termination seal. Form end dams as required with same sealant. Apply under dry conditions when air and surface temperatures are above 25 degrees F. Top or leading edge of Sika® MultiSeal Plus Tape & Flashing Sheet should be sealed with a Sikaflex Sealant to limit rainwater from migrating behind the membrane.

Further information available at: www.sikausa.com

Sika Corporation Industry Division 30800 Stephenson Highway Madison Heights, MI 48071 USA Tel. 248 577 0020 Fax 248 577 0810 For further advice on use as a thruwall flashing, contact Sika Technical Services at 1-800-933-SIKA(7452)

### Limitation

Substrate must be clean, dry and free of frost and all contaminants Verify priming requirements before the start of each project.

Applications involving water immersion may require special priming of substrates.

#### Removal

Sika[®] MultiSeal Plus may be removed from tools and equipment with mineral spirit or another suitable solvent. STRICTLY FOLLOW SOLVENT MANUFACTURER'S WARNINGS AND INSTRUCTIONS FOR USE. Following use wash hands with soap and water. Do not use solvents on hands!

### CAUTION: IRRITANT.

Slight Irritant: No respiratory effects known, however may be slightly irritating to the skin and can be a mechanical irritant if contacted with eye. Can cause discomfort if ingested.

### HMIS

Health	1
Flammability	1
Reactivity	0
Personal Protection	В

### First Aid Measures

Wash with soap and water if skin irritation develops. Guard against further contact. Rinse eyes with water to remove material.

### **Further Information**

For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related



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Plus

MultiSeal

Sika®

data. It is highly recommended to read the actual Safety Data Sheet before using the product.

- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- KEEP CONTAINER TIGHTLY CLOSED

Copies of the following publications are available on our website www.sikausa.com:

- Safety Data Sheets
- Product Data Sheet

### In case of emergency call: Chemtrec: 800-424-9300 International: 703-527-3887

#### **Packaging Information**

Rolls	Multiple sizes
Thru-Wall Packaging	Rolls of 12.5" x 50', 2 rolls per carton, color - white (#410595) Other sizes are available, certain restrictions may apply

#### Value Basis

All technical data stated on this Product Data Sheet are based on the results of laboratory tests only. Actual measured data in the field may vary due to site specific conditions which are not known to Sika and beyond our control.

#### **Clean Up**

Scrape up and put into suitable container. Dispose of in accordance with Federal, State and Local environmental regulations.

#### Limited Material Warranty

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of

product for intended use and assumes all risks. Buver's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES IMPLIED OR EXPRESS SHALL APPLY INCLUDING ANY WARRANTY OF **MERCHANTABILITY OR FITNESS** FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY SPECIAL FOR OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT RF **RESPONSIBLE FOR THE USE OF** THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

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# **H** - Special Additives and Accessories

Rugasol-S SikaFilm SikaLatex SikaLatex R Sikament 100 SC

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**BUILDING TRUST** 

# I - Tables and Warranty

Coverage Tables Tables & Estimating Data for Epoxy Mortars Conversions and Conversion Tables Sika Construction Products Warranty



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# **COVERAGE TABLES**

## Coverages for Joint Sealing (Linear feet per specified packaging)

10.1 oz Cartridge: Yield in Linear feet							
	Depth (in.)						
		1/4"	3/8"	1/2"			
	1/4"	24.3					
	3/8"	16.2	10.8				
	1/2"	12.1	8.1	6.1			
Width	3/4"	8.1	5.4	4.0			
	1"			3.0			
	1.25"			2.4			
	1.5"			2.0			

29 oz feet	29 oz Cartridge: Yield in Linear feet					
	Depth (in.)					
		1/4"	3/8"	1/2"		
	1/4"	69.8				
	3/8"	46.5	31.0			
E	1/2"	34.9	23.3	17.4		
Width	3/4"	23.3	15.5	11.6		
>	1"			8.7		
	1.25"			7.0		
	1.5"			5.8		

20 oz Sausage: Yield in Linear feet						
Depth (in.)						
		1/4"	3/8"	1/2"		
	1/4"	48.1				
	3/8"	32.1	21.4			
	1/2"	24.1	16.0	12.0		
Width	3/4"	16.0	10.7	8.0		
	1"			6.0		
	1.25"			4.8		
	1.5"			4.0		

1 gallon: Yield in Linear feet							
	Depth (in.)						
		1/4"	3/8"	1/2"			
	1/4"	307.9					
	3/8"	205.3	136.8				
Ч	1/2"	153.9	102.6	77.0			
Width	3/4"	102.6	68.4	51.3			
>	1"			38.5			
	1.25"			30.8			
	1.5"			25.7			

### (Theoretical) Coverages for Coating or Membranes

Thickness of coating	Coverage per U.S. Gallon
applied (1000 mils = 1 in.)	100% Solids System
1⁄4 in. = 250.000 mils	6.4 sq. ft.
³ / ₁₆ in. = 187.500 mils	8.5 sq. ft.
¹⁄₃ in. = 125.000 mils	12.8 sq. ft.
100.000 mils	16.0 sq. ft.
¹⁄₁₅ in. = 62.500 mils	25.7 sq. ft.
50.000 mils	32.1 sq. ft.
¹ / ₃₂ in. = 31.250 mils	51.3 sq. ft.
20.000 mils	80.2 sq. ft.
¹ / ₆₄ in. = 15.625 mils	102.7 sq. ft.
10.000 mils	160.4 sq. ft.
5.000 mils	320.8 sq. ft.
1.000 mils	1604.2 sq. ft.

**Note:** If a coating contains a solvent which will evaporate, the thickness of the coating will be reduced by the same percentage as the solvent loss.

# **TABLES & ESTIMATING DATA FOR EPOXY MORTARS**

### Epoxy Mortar Yield per Gallon of Epoxy Binder

Epoxy Binder, gal.	Aggregate, gal.*	Mortar, gal.				
1	1	1.6				
1	2	2.2				
1	3	2.8				
1	4	3.4				
1	1 5 4.0					
*Flint shot approximately 12-14 lb./gal. With other aggregates, figures will vary with mesh size and amount of entrained air.						

### Coverage per Gallon of Epoxy Mortar

(Epoxy Binder + Sand)

Epoxy Mortar, gal.	Thickness, in.	Coverage, sq. ft.
1	1/16	25.7
1	1/8	12.8
1	3/16	8.6
1	1/4	6.4
1	3/8	4.3
1	1/2	3.2

## 

### CEMENT

### **TEMPERATURE**

WATER					
U.S. Gallons	Pounds				
1	8.35				
2	16.69				
3	25.04				
4	33.38				
5	41.73				
6	50.07				
7	58.42				
8	66.76				
9	75.11				
10	83.45				
11	91.80				
12	100.14				
13	108.49				
14	116.83				
15	125.18				
16	133.52				
17	141.87				
18	150.21				
19	158.56				
20	166.90				
21	175.25				
22	183.59				
23	191.94				
24	200.28				
25	208.63				
26	216.97				
27	225.32				
28	233.66				
29	242.01				
30	250.35				
31	258.70				
32	267.04				
33	275.39				
34	283.73				
35	292.08				
36	300.42				
37	308.77				
38	317.11				
39	325.46				
40	333.80				
41	342.15				
42	350.49				
43	358.84				
44	367.18				
45	375.53				

Bags	Pounds	
.25 0.50 0.75	) 47	
1.00 1.25 1.50 1.75	117.5 141	
2.00 2.25 2.50 2.75	211.5 235	
3.00 3.25 3.50 3.75	305.5 329	
4.00 4.25 4.50 4.75	399.5 423	
5.00 5.25 5.50 5.75	493.5 517	
6.00 6.25 6.50 6.75	587.5 611	
7.00 7.25 7.50 7.75 8.00	681.5 705 728.5	

Fahrenheit	Celsius
0	-17.8
5	-15.0
10	-12.2
15	-9.4
20	-6.7
25	-3.9
30	-1.1
32	0
35	1.7
40	4.4
45	7.2
50	10.0
55	12.8
60	15.6
65	18.3
70	21.1
75	23.9
80	26.7
85	29.4
90	32.2
95	35.0
100	37.8
105	40.6
110	43.3
115	46.1
120	48.9
125	51.7
130	54.4
135	57.2
140	60.0
145	62.8
150	65.6
155	68.3
160	71.1
165	73.9
170	76.7
175	79.4
180	82.2
185	85.0
190	87.8
195	90.6
200	93.3
205	96.1
210	98.9
212	100.0

## **Concrete Mix Design**

Material	US Customary		Multiply by		SI (Metric)		Multiply by		US Customary
Sand, Stone, Cement	lb./yd³	х	0.5933	=	kg/m³	х	1.686	=	lb./yd³
Water	gal./yd³	Х	4.951	=	kg/m³	Х	0.2020	=	gal./yd³
Admixture	fl.oz./100 lbs. cement	х	65.2	=	ml/100 kg cement	х	0.0153	=	fl.oz./100 lbs. cement
Admixture	fl.oz./yd³	х	0.03868	=	L/m³	х	25.85	=	fl.oz./yd³

### **Concrete Properties**

Material	US Customary		Multiply by		SI (Metric)		Multiply by		US Customary
Slump	in.	х	2.54	=	ст	х	0.394	=	in.
Temperature	°F	х	(°F-32) ÷1.8	=	°C	х	(°Cx1.8)+32	=	°F
Unit Weight	pcf	х	16.02	=	kg/m³	х	0.0624	=	pcf
Compressive Strength	psi	х	0.006895	=	MPa (N/mm²)	x	145.0	=	psi
Flexural Strength	psi	х	0.006895	=	MPa (N/mm²)	х	145.0	=	psi
Air Content	%				%				%

## **Conversion factors**

Where accuracy is important conversion factors should be rounded off to four significant figures. This provides sufficient accuracy for regular concrete practices such as mix design, batching etc. If greater accuracy is required, please refer to ASTM C-380.

## Linear Conversions (Approximate)

US Measure		Multiply by		SI (Metric)		Multiply by		US Customary
inches	х	25.4	=	Mm	х	0.039	=	in.
inches	х	2.5	=	ст	х	0.39	=	in.
feet	х	30.5	=	ст	х	3.28	=	ft.
yards	х	0.91	=	m	х	1.09	=	yds.
miles	х	1.61	=	km	х	0.62	=	miles

### Area Conversions (Approximate)

US Measure		Multiply by		SI (Metric)		Multiply by		US Customary
in²	х	6.5	=	cm²	х	0.16	=	in²
ft²	х	0.092	=	m ²	х		=	
yd²	х	0.84	=	m²	х	1.2	=	yd²
mile ²	x	2.6	=	km²	х	0.38	=	mile ²

## English Units

12 inches = 1 foot 3 feet = 1 yard 144 in² =  $1ft^2$ 1728 in³ =  $1 ft^3$ 27 ft³ =  $1 yd^3$ 8 fl.oz. = 1 cup2 cups = 1 pint4 quarts = 1 gallon1 gallon = 231 in. 1 ft = 7.48 gallons

### **Comparison of Typical Concrete Quantities**

Metric to U	S Cu	stomary	US Cust	oma	ry to Metric
1 MPa	=	145 psi	1 ft.	=	0.3 m
1 m3	=	1.3 yd³	1 in.	=	2.5 cm
1 liter/ m3	=	0.2 gal./ yd³	1 fl.oz/ 100 lbs.cement	=	65 ml/100 kg cement
1 kg	=	2.2 lbs.	1 lb./yd³	=	0.6 kg/m³
1 kg/m3	=	1.686 lbs/yd³	1 yd³	=	0.7646 m³
Unit weight (water)	=	1 kg/L	1 fl.oz	=	30 ml
1 metric ton (1000 kg)	=	2205 lbs.	1 gal.	=	3.8 liter

## Comparison of Typical (Approximate) Concrete Values

Typical value	US Customary	Metric
Weight: bag of cement	94 lb	± 43 kg
Typical Design Strength	3000 psi	21 MPa
High Strength Concrete	6000 psi	41 MPa
Cement Content 5 bag mix 6 bag mix 7 bag mix	470 lbs/yd³ 564 lbs/yd³ 658 lbs/yd³	279 kg/m³ 335 kg/m³ 390 kg/m³
Concrete Density	145 lb./ft ³	2323 kg/m³
Slump	3 - 4 in.	7.5 - 10 cm
Slab thickness	4 in.	10 cm

## Volume Conversions (approximate)

US Measure		Multiply by		SI (Metric)		Multiply by		US Customary
in³	х	16.0	=	ml	х	0.06	=	in. ³
fl. oz.	х	29.6	=	ml	х	0.03	=	fl. oz.
cups	х	0.24	=	liters	х	0.036	=	cups
pints	x	0.47	=	liters	х	2.1	=	pints
quarts	х	0.95	=	liters	х	1.06	=	quarts
gallons	x	3.79	=	liters		0.26	=	gallons
ft.	х	0.028	=	m		35.3	=	ft.
yds³	x	0.76	=	ft.		1.31	=	yds³
ft ³	x	28.3	=	liters			=	
yds³	х	764.5	=	liters			=	

### **Comparison of Typical Concrete Quantities**

US Measure		Multiply by		SI (Metric)		Multiply by		US Customary
OZ.	х	28.3	=	grams	х	0.035	=	OZ.
lbs.	х	0.45	=	kg	х	2.2	=	lbs.
short tons	х	0.91	=	Metric Tons	х	1.1	=	short tons

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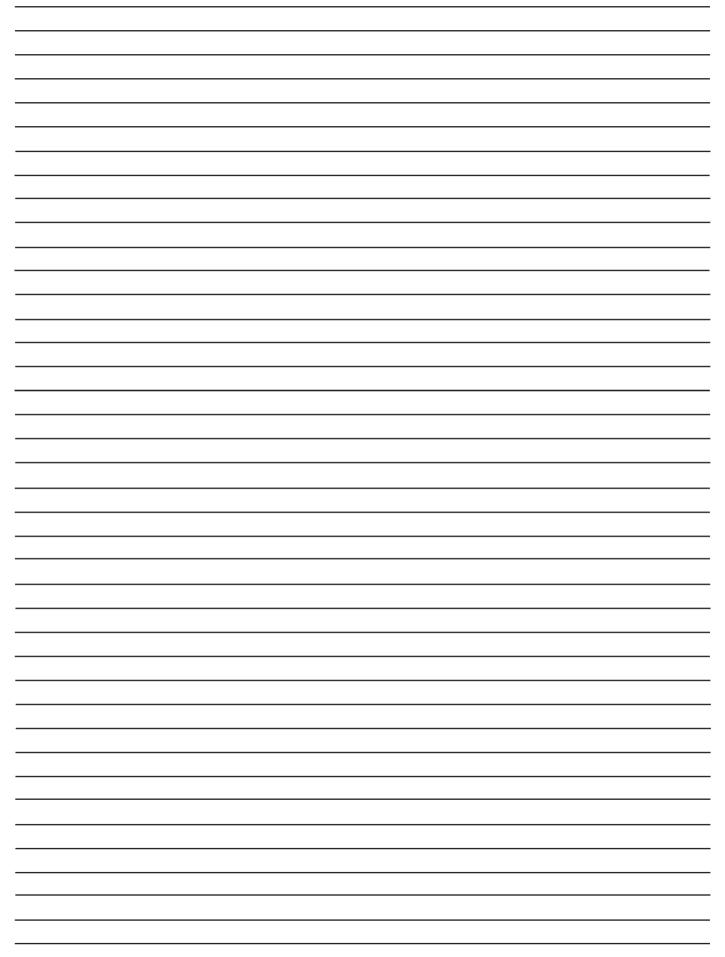
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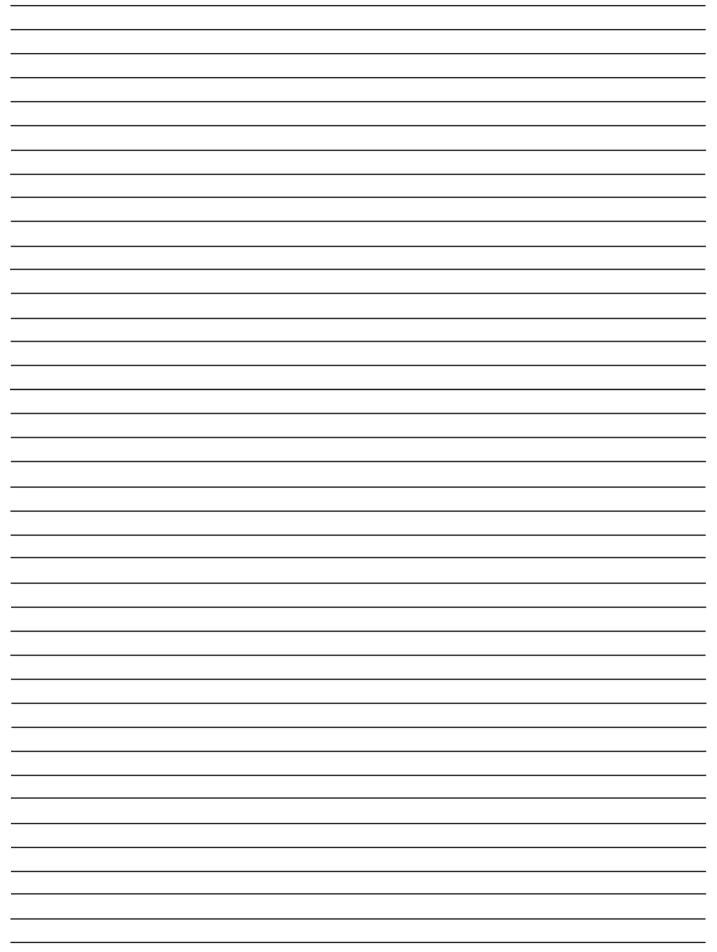
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