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 of		e used with	and without a prime	r as needed. The system		
Where to Use	Use for exterior, above grade, i.e., bridge decks, parking structures, ramps and interior applications requiring a protective, abrasion- and skid-resistant overlay with long-term durability and performance. 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 vears in origina	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	Clear, light amber					
	Mixing Ratio	Component 'A' : Component 'B' 1:1 by volume.					
	Viscosity (Mixed)	Approximately 2,	Approximately 2,500 cps.				
	Pot Life	Approximately 30	oximately 30 minutes (200 gram mass)				
	Tack-Free Time	40°F (4°C): 21 hrs.	73°	'F (23°C): 4 hrs.	90°F (32°C): 2 hrs.		
	Open Time	Light foot traffic: 4	I-6 hrs. Rul	bber-wheel traffic: 8	-10 hrs.		
	Tensile Properties (ASTM D-638) Broadcast 1:2.25						
		e Strength ation at Break		2,200 psi (15 1.1%	o.2 MPa)		
		us of Elasticity		4.7 x 10⁵psi	(3,240 MPa)		
	Flexural Properties (ASTM D-790)						
	-	al Strength (Modulus nt Modulus of Elastic		<i>,</i> , , , ,			
	Shear Strength (ASTM D-732)14 day			3,300 psi (22	2.7 MPa)		
	Bond Strength (ASTM C-882): Hardened Concrete to Hardened Concrete 2 day (dry cure) Bond Strength 1,100 psi (7.5 MPa) 4 day (dry cure) Bond Strength 1,000 psi (41 MPa)						
	14 day (moist cure)Bond Strength1,600 psi (11 MPa)Abrasion (Taber Abrader) (H-22 wheel; 1,000 gm weight)14 dayWeight loss, 1,000 cycles1.61 gm						
	Compressive Properties (ASTM D-695) Compressive Strength, psi						
			cast (1:2.25				
	40°F* 8 hour -	(4°C) 73°F* (70 (0.4	23°C)	90°F* (32°C) 3,500 (24.1)			
	16 hour -	1,850 (4.400 (30.3)			
	1 day 60 (0.			4,600 (31.7)			
		(11.7) 6,900 ((46.2) 7,500 (. ,	5,000 (34.5) 5,400 (37.2)			
	14 day 8,400	(58.0) 7,800 (5,900 (40.7) 6,300 (43.4)			
	Compressive Modu		· · ·		1.66 x 10⁵psi (1,145 MPa)		
	*Material cured and tested at		, 10 Pol (, <u></u> ,	(,, , , , , , , , , , , , , , , , , , ,		
	Material cureu anu testeu al	are temperatures indicated.					
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Construction

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.

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, indutrial 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 Preparatic	 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 clea 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 2 Lo-Mod using a roller or flat squeegee. Coverage should be approximately 200-250 sq. ft./gal. Wh the primer is still tacky, apply the binder material with a 3/16 in. notched-rubber squeegee. Allow th binder to self-level.					
	 Cracks: Static (non-moving) cracks ≤1/8 in., gravity feed with an appropriate sealer/healer materi Dynamic cracks ≥1/8 in. should be treated as joints and sealed with an appropriate joint sealer. Broadcast: Slowly broadcast an oven-dried sand so that the sand falls vertically into the binder (a rate of 2 lbs./sf). Other sources of aggregate may be used but must conform to the minimum gradation standard. Continue to broadcast lightly making 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 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 b 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 h 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% ar 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 drving con- 					
	 Minimum age of concrete prior to application is 21-28 days, depending on curing and drying contions. Do not apply to exterior, on-grade substrates, unvented metal pan decks, split/sandwich slabs, o buried membrane conditions. 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. Any repairs required to achieve a lovel surface must be performed prior to application (consult a 					
Ka SH PAI TO	Any repairs required to achieve a level surface must be performed prior to application (consult a IOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS A STRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DA EET WHICH ARE AVAILABLE ONLINE AT HTTP://USA.SIKA.COM/ OR BY CALLING SIKA'S TECHNICAL SERVICE D 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 CL NT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.					

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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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.

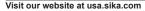
Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.com/ or by calling Sika's Technical Service Department at 800-933-7452. 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 UNDERANY 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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