



# Sikalastic<sup>®</sup> DeckPro TRAFFIC SYSTEMS

## APPLICATOR MANUAL

April 2019 Edition

BUILDING TRUST



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# 1.0 Packaging and Ordering

Sikalastic® Traffic System Products					
Code	Name	Description	Packaging	Colors	Weight
<b>Primers</b>					
<b>Concrete, Plywood</b>					
532711	Sikalastic Primer	1C PU Fast curing primer	5 gal pails	Amber	54 lbs.
481910	Sikalastic FTP	2C epoxy diluted with water in field	4.5 gal. kit (yields 7 gal.)	Lt. green	56 lbs
481899		part A	2 x 1 gal. cans per carton		24 lbs
481898		part B	2 x 1.25 gal. in pails short filled		32 lbs
481897	Sikalastic FTP	2C epoxy diluted with water in field	0.63 gal. kit (yields 1 gal.)	Lt. green	7 lbs
481896		part A	0.28 gal. in pail – short filled		3 lbs
481895		part B	0.35 gal. in pail – short filled		4 lbs
493421	Sikalastic FTP Lo-VOC	2C epoxy	15 gal. kit	Lt. green	148 lbs
493418		part A	2 x 5 gal. pail		100 lbs
493414		part B	5 gal. pail		48 lbs
493424	Sikalastic FTP Lo-VOC	2C epoxy	3 gal. kit	Lt. green	34 lbs
493420		part A	2 gal. in pail - short filled		22 lbs
493417		part B	1 gal. can		12 lbs
493411	Sikalastic PF Lo-VOC	2C epoxy pore filling	10 gal. kit	gray	146 lbs
493408		part A	5 gal. pail		60 lbs
493403		part B	5 gal. pail		86 lbs
493412	Sikalastic PF Lo-VOC	2C epoxy pore filling	2 gal. kit	gray	34 lbs
493409		part A	1 gal. can		20 lbs
493406		part B	1 gal. can		14 lbs
473008	Sikalastic MT	2C epoxy moisture tolerant	4.5 gal. kit	Lt. red	58 lbs
473007		part A	3 gal. pail		44 lbs
473006		part B	1.5 gal. pail		14 lbs
<b>Metal</b>					
91131	Sikaflex 260		6 x 1 pt. cans per carton	clear	6 lbs
<b>Recover/Interlaminat</b>					
472029	Sikalastic Recoat Primer	2C urethane	10 gal. kit	gray	99 lbs
472026		part A	5 gal. pail		54 lbs
472028		part B	5 gal. pail		45 lbs
507785	Sikalastic Recoat Primer	2C urethane	4 gal. kit (2 cans A, 2 cans B)	gray	41 lbs
503150		part A	1 gal. pail		11 lbs
503139		part B	1 gal. pail		9 lbs
532711	Sikalastic Primer	1C PU Fast curing primer	5 gal pails		54 lbs.
<b>Base Coats</b>					
<b>Single Component, Standard Cure</b>					
189328	Sikalastic 710 Base	solvent-based aromatic 1C PU	5 gal. pail	gray	56 lbs
189327	Sikalastic 710 Base	solvent-based aromatic 1C PU	50 gal. net drum - special order	gray	572 lbs
490159	Sikalastic 710 Base Lo-VOC	solvent-based aromatic 1C PU – CA compliant	4.75 gal. pail	gray	53 lbs
496247	SL 710 Base Lo-VOC Booster	curing accelerator	4 x 1 qt. cans per carton	clear	9 lbs
504050	Sikalastic 710 NP Base	Solvent-based aromatic 1C PU	5 gal.	gray	56 lbs.

### Two Component, Fast Cure

188052	Sikalastic 720 Base	solvent-free 2C PU	20 gal. kit (4 pails A, 1 carton B)	gray	195 lbs
189335		part A	4 gal. in pail short filled		39 lbs
189336		part B	4 x 1 gal cans per carton		39 lbs
471938	Sikalastic 390 Base	solvent-free 2C PU	5 gal. kit	brown	51 lbs
471937		part A	3.33 gal. in pail - short filled		32 lbs
471693		part B	1.67 gal. in pail - short filled		19 lbs
580801	Sikalastic 390 NP	Solvent-free 2c PU	5 gal Kit	gray	51 lbs
580207		part A	4.5 gal. in pail short filled		32 lbs
580211		part B	0.5 gal		19 lbs

### Single Component Top Coats

#### Standard Cure, Aromatic

189333	Sikalastic 715 Top	solvent-based aromatic PU	5 gal. pail	gray	53 lbs
189332	Sikalastic 715 Top	solvent-based aromatic PU	5 gal. pail	charcoal	53 lbs
189334	Sikalastic 715 Top	solvent-based aromatic PU	5 gal. pail	tan	53 lbs
189330	Sikalastic 715 Top	solvent-based aromatic PU	50 gal. net drum - special order	gray	541 lbs
189329	Sikalastic 715 Top	solvent-based aromatic PU	50 gal. net drum - special order	charcoal	541 lbs
189331	Sikalastic 715 Top	solvent-based aromatic PU	50 gal. net drum - special order	tan	541 lbs
537819	Sikalastic 715 Textured	solvent-based aromatic PU, pretextured	5 gal pail	gray	53 lbs
537820	Sikalastic 715 Textured	solvent-based aromatic PU, pretextured	5 gal pail	charcoal	53 lbs
537818	Sikalastic 715 Textured	solvent-based aromatic PU, pretextured	5 gal pail	tan	53 lbs
490172	Sikalastic 715 Top Lo-VOC	solvent-based aromatic 1C PU - CA compliant	4.75 gal. pail	gray	50 lbs
490171	Sikalastic 715 Top Lo-VOC	solvent-based aromatic 1C PU - CA compliant	4.75 gal. pail	charcoal	50 lbs
538086	Sikalastic 715 Lo-VOC Textured	solvent-based aromatic 1C PU pretextured CA compliant	4.75 gal. pail	gray	50 lbs
538084	Sikalastic 715 Lo-VOC Textured	solvent-based aromatic 1C PU pretextured CA compliant	4.75 gal. pail	charcoal	50 lbs
538085	Sikalastic 715 Lo-VOC Textured	solvent-based aromatic 1C PU pretextured CA compliant	4.75 gal. pail	tan	50 lbs
490170	Sikalastic 715 Top Lo-VOC	solvent-based aromatic 1C PU - CA compliant	4.75 gal. pail	tan	50 lbs
496246	Sikalastic 715 Top Lo-VOC Booster	curing accelerator	4 x 1 qt. cans per carton	clear	9 lbs

#### Standard Cure, Aliphatic

189338	Sikalastic 735 AL	solvent-based aliphatic PU	5 gal. pail	gray	53 lbs
189337	Sikalastic 735 AL	solvent-based aliphatic PU	5 gal. pail	charcoal	53 lbs
189340	Sikalastic 735 AL	solvent-based aliphatic PU	5 gal. pail	tan	53 lbs
189339	Sikalastic 735 AL	solvent-based aliphatic PU	5 gal. pail	special	53 lbs
490174	Sikalastic 735 AL Tint-Base	solvent-based aliphatic PU	4.65 gal. pail - special order	neutral	48 lbs
189342	Sikalastic 736 AL Lo-VOC	solvent-based aliphatic PU - CA compliant	5 gal. pail - special order	gray	54 lbs
189341	Sikalastic 736 AL Lo-VOC	solvent-based aliphatic PU - CA compliant	5 gal. pail - special order	charcoal	54 lbs
189344	Sikalastic 736 AL Lo-VOC	solvent-based aliphatic PU - CA compliant	5 gal. pail - special order	tan	54 lbs
189343	Sikalastic 736 AL Lo-VOC	solvent-based aliphatic PU - CA compliant	5 gal. pail - special order	special	54 lbs
490173	Sikalastic 736 AL Lo-VOC Tint-Base	solvent-based aliphatic PU - CA compliant	4.65 gal. pail - special order	neutral	48 lbs
564702	Sikalastic 736 AL Textured	solvent-based aliphatic PU - CA compliant	5 gal. pail - special order	gray	54 lbs
564701	Sikalastic 736 AL Textured	solvent-based aliphatic PU - CA compliant	5 gal. pail - special order	charcoal	54 lbs
564700	Sikalastic 736 AL Textured	solvent-based aliphatic PU - CA compliant	5 gal. pail - special order	tan	54 lbs
563257	Sikalastic 736 AL Textured	solvent-based aliphatic PU - CA compliant	5 gal. pail - special order	special	54 lbs
564679	Sikalastic 736 AL Textured Tint Base	solvent-based aliphatic PU - CA compliant	4.65 gal. pail - special order	neutral	48 lbs

Two Component Top Coats					
Fast Cure, Aromatic					
471690	Sikalastic 391	solvent-free aromatic 2C PU	5 gal. kit	gray	50 lbs
471679	Sikalastic 391	solvent-free aromatic 2C PU	5 gal. kit	charcoal	50 lbs
471678	Sikalastic 391	solvent-free aromatic 2C PU	5 gal. kit	tan	50 lbs
	Sikalastic 391	olvent-free aromatic 2C PU	5 gal. kit	dark gray	50 lbs
471675		part A	3.89 gal. in pail – short filled	gray	37 lbs
471648		part A	3.89 gal. in pail – short filled	charcoal	37 lbs
471647		part A	3.89 gal. in pail – short filled	tan	37 lbs
		part A	3.89 gal. in pail – short filled	dark gray	37 lbs
471677		part B	1.11 gal in pail – short filled	neutral	13 lbs
Fast Cure, Aliphatic					
188056	Sikalastic 745 AL	solvent-free aliphatic 2C PU	17.6 gal. kit (4 pails A, 1 carton B)	gray	187 lbs
188055	Sikalastic 745 AL	solvent-free aliphatic 2C PU	17.6 gal. kit (4 pails A, 1 carton B)	charcoal	187 lbs
188057	Sikalastic 745 AL	solvent-free aliphatic 2C PU	17.6 gal. kit (4 pails A, 1 carton B)	tan	187 lbs
411931	Sikalastic 745 AL	solvent-free aliphatic 2C PU	17.6 gal. kit (4 pails A, 1 carton B)	special	187 lbs
189347		part A	4 gal. in pail short filled	tan	42 lbs
411937		part A	4 gal. in pail short filled - special order	special	42 lbs
189348		part B	4 x 0.4 gal. cans per carton	neutral	19 lbs
495529	Sikalastic 395	solvent-free aliphatic 2C PU	10 gal. kit (2 pails A, 1 carton B)	gray	47 lbs
504643	Sikalastic 395	solvent-free aliphatic 2C PU	10 gal. kit (2 pails A, 1 carton B)	charcoal	47 lbs
504644	Sikalastic 395	solvent-free aliphatic 2C PU	10 gal. kit (2 pails A, 1 carton B)	tan	47 lbs
561229	Sikalastic 395	10 gal. kit (2 pails A, 1 carton B)	10 gal. kit (2 pails A, 1 carton B)	dark gray	47 lbs
504645	Sikalastic 395	solvent-free aliphatic 2C PU	10 gal. kit (2 pails A, 1 carton B)	special	47 lbs
495528		part A	4.5 gal. pail	gray	42 lbs
504499		part A	4.5 gal. pail	charcoal	42 lbs
504640		part A	4.5 gal. pail	tan	42 lbs
561138		part A	4.5 gal. pail	dark gray	42 lbs
504642		part A	4.5 gal. pail	special	42 lbs
495527		part B	2 x 0.5 gal. cans per carton	neutral	5 lbs
Fast Cure, Epoxy Aggregate Binder					
91105	Sikadur 22 Lo-Mod	solvent-free 2C epoxy resin	4 gal. unit (2 gal. A, 2 gal. B)	neutral	48 lbs
Fast Cure, Polyaspartic					
189349	Sikalastic 748 PA	78% solids 2C polyaspartic	4 gal. unit (2 gal. A, 2 gal. B per ct.)	clear	42 lbs
189350	Sikalastic 748 PA	80% solids 2C polyaspartic	4 gal. unit (2 gal. A, 2 gal. B per ct.)	special	46 lbs
Accelerator					
496256	Sikalastic 700 ACL	1C base and top accelerator	6 x 1 qt. cans per carton	neutral	14 lbs
Decorative Aggregates					
189192	Bucks County Tan	Broadcast Colored Quartz	50 lb. bag		50 lbs
189208	Granite	Broadcast Colored Quartz	50 lb. bag		50 lbs
189194	Ocean Blue	Broadcast Colored Quartz	50 lb. bag		50 lbs
189191	Sandstone	Broadcast Colored Quartz	50 lb. bag		50 lbs
189199	Slate	Broadcast Colored Quartz	50 lb. bag		50 lbs
189193	Canada Brown	Broadcast Colored Quartz	50 lb. bag		50 lbs

189195	Desert Sand	Broadcast Colored Quartz	50 lb. bag		50 lbs
189200	Monterrey Brown	Broadcast Colored Quartz	50 lb. bag		50 lbs
189196	Seaweed	Broadcast Colored Quartz	50 lb. bag		50 lbs
189202	Sedona Red	Broadcast Colored Quartz	50 lb. bag		50 lbs
189201	Tweed	Broadcast Colored Quartz	50 lb. bag		50 lbs
189204	Quicksand	Broadcast Colored Quartz	50 lb. bag		50 lbs
189205	Garden Pool	Broadcast Colored Quartz	50 lb. bag		50 lbs
189077	Custom Color	Broadcast Colored Quartz	50 lb. bag		50 lbs
189220	Bluejay	1/8" DecoFlake Vinyl Flakes	50 lb. box		50 lbs
189357	Custom Color	1/8" DecoFlake Vinyl Flakes	50 lb. box		50 lbs
All Quartz and Flake Colors Special Order - 10 Bags Minimum for Quartz					
189210	Bog	1/8" DecoFlake Vinyl Flakes	50 lb. box		50 lbs
189211	Glacier	1/8" DecoFlake Vinyl Flakes	50 lb. box		50 lbs
189212	Granite	1/8" DecoFlake Vinyl Flakes	50 lb. box		50 lbs
189223	Hampton	1/8" DecoFlake Vinyl Flakes	50 lb. box		50 lbs
189224	Harvest	1/8" DecoFlake Vinyl Flakes	50 lb. box		50 lbs
189355	Mediterranean	1/8" DecoFlake Vinyl Flakes	50 lb. box		50 lbs
189213	Moss	1/8" DecoFlake Vinyl Flakes	50 lb. box		50 lbs
189214	Opal	1/8" DecoFlake Vinyl Flakes	50 lb. box		50 lbs
189215	Red Rock	1/8" DecoFlake Vinyl Flakes	50 lb. box		50 lbs
189216	Sahara	1/8" DecoFlake Vinyl Flakes	50 lb. box		50 lbs
189217	Sapphire	1/8" DecoFlake Vinyl Flakes	50 lb. box		50 lbs
189218	Smoke	1/8" DecoFlake Vinyl Flakes	50 lb. box		50 lbs
189226	Surfside	1/8" DecoFlake Vinyl Flakes	50 lb. box		50 lbs
189219	Terra Cotta	1/8" DecoFlake Vinyl Flakes	50 lb. box		50 lbs

## 2.0 Where To Use

Sika offers a full range of elastomeric, crack-bridging, waterproofing solutions to protect concrete and plywood decks exposed to vehicular and pedestrian traffic, including single and two component polyurethane systems, as well as hybrid polyurethane/epoxy wear coat systems. Available high performance aliphatic top coats in clear, standard and custom colors offer application flexibility and decorative options.

### 2.1 Sikalastic Traffic System applications include:

- Multi-story parking garages
- Parking decks and ramps
- Foot bridges and walkways
- Mechanical rooms
- Stadiums and arenas
- Plaza and rooftop decks
- Balconies and terraces

### 2.2 Sikalastic Traffic System advantages include:

- Excellent crack-bridging properties and flexibility, even at low temperatures
- Outstanding resistance to abrasion and wear
- Impervious to water and deicing salts
- Suitable as waterproofing membrane beneath tile
- Range of standard colors and decorative options
- Depending on the system selected, available system options include:
- Low odor
- Fast turnaround
- Primerless
- Lo-VOC (California compliant)
- Field tintable

### 2.3 Sikalastic Traffic Systems are compatible with a wide range of Sika products used to repair and rehabilitate deck structures, including:

- SikaRepair, SikaTop, and SikaQuick concrete repair mortars
- Sika FerroGard and Sikagard corrosion inhibiting, protective and anti-carbonation coatings
- Sikaflex and Sika Hyflex polyurethane and polyurethane/silicone sealants
- SikaWrap and Sika CarboDur structural strengthening systems
- Sikadur and Sika AnchorFix epoxy repair resins and adhesives

## 3.0 System Guides

### Protective Systems for Parking Decks

System	Technology	Coats (excluding primer)	Application Days	VOCs	Crack Bridging/ Modulus	Features
Sikalastic® 720/745 Traffic	2-component polyurethane	2-3	1-2	below 100	1/16" dynamic	fast cure, low odor
Sikalastic® 720/745 Textured Traffic	2-component polyurethane, pretextured	2-3	1-2	below 100	1/16" dynamic	fast cure, low odor
Sikalastic® 390/391/395	2-component polyurethane	2-3	2-3	below 100	1/16" dynamic	low odor
Sikalastic® 390/395/395	2-component polyurethane	2-3	2-3	below 100	1/16" dynamic	low odor
Sikalastic® 390/395/395	2-component polyurethane, single product	2-3	2-3	below 100	1/16" dynamic	low odor
Sikalastic® 390/395 Textured/395 Textured	2-component polyurethane, pretextured	2-3	2-3	below 100	1/16" dynamic	low odor
Sikalastic® 710/715/735 AL	1-component polyurethane	3-4	3-4	below 250	1/16" dynamic	no pot life restrictions, enhanced UV stability with aliphatic top coat
Sikalastic® 710/715 Textured	1-component polyurethane, pretextured	3-4	3-4	below 250	1/16" dynamic	no pot life restrictions, enhanced UV stability with aliphatic top coat
Sikalastic® 710/715/736 AL Lo-VOC	1-component polyurethane	3-4	3-4	below 100	1/16" dynamic	no pot life restrictions, enhanced UV stability with aliphatic top coat
Sikalastic® 710LoVOC /715 Lo-VOC Textured	1-component polyurethane, pretextured	3-4	3-4	below 100	1/16" dynamic	no pot life restrictions, enhanced UV stability with aliphatic top coat
Sikalastic® 710LoVOC /736 Textured	1-component polyurethane, pretextured	3-4	3-4	below 100	1/16" dynamic	no pot life restrictions, enhanced UV stability with aliphatic top coat
Sikadur® 22 Lo-Mod Hybrid	polyurethane waterproofing with epoxy wear coat	2-3	2-3	below 100	1/16" dynamic	flexible waterproofing, high abrasion resistance, optional top coat
Sikadur® Epoxy Broadcast Overlay	epoxy	1	1	below 100	low modulus	high abrasion resistance
Sikadur® 55 SLV	low viscosity epoxy	1	1	below 150	high modulus	healer/sealer
Sikalastic® 705	100% silane sealer	2	1	below 350	not applicable	transparent sealer
Sikagard® 740	40% silane sealer	2-3	1	below 350	not applicable	transparent sealer

## Protective Systems for Balconies

System	Technology	Coats (excluding primer)	Application Days	VOCs	Crack Bridging/ Modulus	Features
Sikalastic® 720/745 Traffic	2-component polyurethane	2-3	1-2	below 100	1/16" dynamic	fast cure, low odor
Sikalastic® 720/745 Textured Traffic	2-component polyurethane, pretextured	2-3	1-2	below 100	1/16" dynamic	fast cure, low odor
Sikalastic® 390/391/395	2-component polyurethane	2-3	2-3	below 100	1/16" dynamic	low odor
Sikalastic® 390/395/395	2-component polyurethane	2-3	2-3	below 100	1/16" dynamic	low odor
Sikalastic® 390/395/395	2-component polyurethane	2-3	2-3	below 100	1/16" dynamic	low odor
Sikalastic® 390/395 Textured/395 Textured	2-component polyurethane, pretextured	2-3	2-3	below 100	1/16" dynamic	low odor
Sikalastic® 710/715/735 AL	1-component polyurethane	3-4	3-4	below 250	1/16" dynamic	no pot life restrictions, enhanced UV stability with aliphatic top coat
Sikalastic® 710/715 Textured	1-component polyurethane, pretextured	3-4	3-4	below 250	1/16" dynamic	no pot life restrictions, enhanced UV stability with aliphatic top coat
Sikalastic® 710/715/736 AL Lo-VOC	1-component polyurethane	3-4	3-4	below 100	1/16" dynamic	no pot life restrictions, enhanced UV stability with aliphatic top coat
Sikalastic® 710LoVOC /715 Lo-VOC Textured	1-component polyurethane, pretextured	3-4	3-4	below 100	1/16" dynamic	no pot life restrictions, enhanced UV stability with aliphatic top coat
Sikalastic® 710LoVOC /736 Textured	1-component polyurethane, pretextured	3-4	3-4	below 100	1/16" dynamic	no pot life restrictions, enhanced UV stability with aliphatic top coat
Sikadur® 22 Lo-Mod Hybrid	polyurethane waterproofing with epoxy wear coat	2-3	2-3	below 100	1/16" dynamic	flexible waterproofing, high abrasion resistance, optional top coat
Sikadur Epoxy Broadcast Overlay	epoxy and polyurethane	2	2	below 100	low modulus	high abrasion resistance
Sikagard Flexcoat System	cementitious waterproofing with acrylic top coat	3-4	2	below 100	static	cementitious decorative waterproofing
FlexCoat ATC	cementitious and acrylic	2-4	1-2	below 100	flexible	Range of textures, On grade application

## 3.1 Single Component

### Sikalastic 710/715/735 AL Traffic System – Single Component

System Guide	Pedestrian Traffic	Heavy Pedestrian / Light Vehicular - Seed and Lock	Heavy Pedestrian / Light Vehicular	Heavy Vehicular Traffic - Seed and Lock	Heavy Vehicular Traffic - Seed and Backroll
Primer	Sikalastic Primer - 3 00 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 joints.				
710 Base Coat	32 mils wet (23 mils dry) - 50 sf/gal.				
715/735 AL Top Coat I	14 mils wet (10 mils dry) - 115 sf/gal	11 WFT (8 mils dry) - 145 sf/gal	11 WFT (8 mils dry) - 145 sf/gal	11 WFT (8 mils dry) - 145 sf/gal	22* WFT (16 mils dry) - 73 sf/gal
Aggregate	5-10 lbs/100 sf -seeded/backrolled	20-40 lbs/100 sf	10-15 lbs/100 sf -seeded/backrolled	10-15 lbs/100 sf -seeded	10-15 lbs/100 sf -seeded/backrolled
715/735 AL Top Coat II		16 WFT (12 mils dry) - 100 sf/gal	16 WFT (12 mils dry) - 100 sf/gal	16 WFT (12 mils dry) - 100 sf/gal	22* WFT (16 mils dry) - 73 sf/gal
Aggregate			10-15 lbs/100 sf -seeded/backrolled	10-15 lbs/100 sf -seeded	10-15 lbs/100 sf -seeded/backrolled
715/735 AL Top Coat III				16 mils wet (12 mils dry) - 100 sf/gal	
Total Thickness	33 DFT (excluding aggregate)	43 DFT (excluding aggregate)	43 DFT (excluding aggregate)	55 DFT (excluding aggregate)	55 DFT (excluding aggregate)
See separate Sikalastic® Aliphatic Top Coats data sheet for DecoQuartz® and DecoFlake® systems.					
NOTE:* Requires use of 700 ACL Accelerator with 715 Top Coat, and with 735 AL 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.					

### Sikalastic 710/715 Textured Traffic System – Single Component Aromatic

System Guide	Pedestrian Traffic	Heavy Pedestrian / Light Vehicular	Heavy Vehicular		
Primer	Sikalastic Primer - 300 sf/gal. Consult Sika for other primer options for recover and high moisture content substrates.				
710 Detail Coat	32 WFT over properly treated cracks and joints.				
710 Base Coat	32 WFT (23 mils dry) - 50 sf/gal.				
715/735 AL Top Coat I	16 WFT (12 DFT) 80 sf/gal	14 WFT (10 DFT) 87 sf/gal	20 WFT (16 DFT) 58 sf/gal		
715 Top Coat II		16 WFT (12 DFT) 80 sf/gal	20 WFT (16 DFT) 58 sf/gal		
Total Thickness	33 DFT (excluding aggregate)	45 DFT (excluding aggregate)	55 DFT (excluding aggregate)		
See separate Sikalastic® Aliphatic Top Coats data sheet for DecoQuartz® and DecoFlake® systems.					
NOTE:* Requires use of 700 ACL Accelerator with 715 Top Coat, and with 735 AL 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.					

## Sikalastic 710/736 Textured Traffic System-Single Component Aliphatic

System Guide	Pedestrian Traffic	Heavy Pedestrian / Light Vehicular	Heavy Vehicular
Primer	Sikalastic Primer - 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 joints.		
710 Base Coat	32 mils wet (23 mils dry) - 50 sf/gal.		
736 Textured Top Coat I	14 WFT (12 DFT) 83 sf/gal	12 WFT (10 DFT) 100 sf/gal	18 WFT (16 DFT) 62 sf/gal
736 Textured Top Coat II		14 WFT (12 DFT) 83 sf/gal	18 WFT (16 DFT) 62 sf/gal
Total Thickness	35 DFT	45 DFT	55 DFT
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.			

## Sikalastic 710/22 Lo-Mod Traffic System - Hybrid

System Guide	Standard Vehicular Traffic - Full Broadcast	Heavy Vehicular Traffic - Full Broadcast	Extra Heavy Vehicular Traffic - Full Broadcast
Primer	Sikalastic Primer - 300 sf/gal. Consult Sika for other primer options for recover and high moisture content substrates.		
710 Detail Coat	32 WFT over properly treated cracks and joints.		
710 Base Coat	32 WFT (23 mils dry) - 50 sf/gal.		
22 Lo-Mod Binder I	20 WFT (20 DFT) - 70 sf/gal	32 WFT (32 DFT) - 50 sf/gal	32 WFT (32 DFT) - 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 WFT (18 DFT) - 70 sf/gal	23 WFT (18 DFT) - 70 sf/gal	23 WFT (18 DFT) - 70 sf/gal
Total Thickness	61 DFT (excluding aggregate)	73 DFT (excluding aggregate)	105 DFT (excluding aggregate)
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.			

## 3.2 Single Component Lo-VOC

### Sikalastic 710 Lo-VOC/715 Lo-VOC/736 AL Low-VOC Traffic System – Single Component

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	Sikalastic Primer - 300 sf/gal. Consult Sika for other primer options for recover and high moisture content substrates.				
710 Base Lo-VOC Detail Coat	26 WFT over properly treated cracks and joints.				
710 Base Lo-VOC Base Coat	26 WFT (23 mils dry) - 61 sf/gal.				
715 Top Lo-VOC /736 AL Lo-VOC Top Coat I*	11/12 WFT (10 mils dry) - 145/133 sf/gal	9/10 WFT (8 mils dry) - 178/160 sf/gal	23**/24** WFT (20 mils dry) - 69/67 sf/gal	9/10 WFT (8 mils dry) - 178/160 sf/gal	18/19 WFT (16 mils dry) - 89/85 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 WFT (12 mils dry) - 123/114 sf/gal		13/14 WFT (12 mils dry) - 123/114 sf/gal	18/19 WFT (16 mils dry) - 89/85 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 WFT (12 mils dry) - 123/114 sf/gal	
Total Thickness	33 DFT (excluding aggregate)	43 DFT (excluding aggregate)	43 DFT (excluding aggregate)	55 DFT (excluding aggregate)	55 DFT (excluding aggregate)
NOTE: *Wet mil and coverage information provided separately for both 715 Top Lo-VOC/736 AL Lo-VOC Top Coats					
NOTE: **Requires use of 715 Top Lo-VOC Booster with 715 Top Lo-VOC Top Coat, and 700 ACL Accelerator with 736 AL Lo-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.					

### Sikalastic 710 LoVOC/715 LoVOC Textured Traffic System – Single Component Aromatic Lo-VOC

System Guide	Pedestrian Traffic	Heavy Pedestrian / Light Vehicular	Heavy Vehicular
Primer	Sikalastic Primer - 300 sf/gal. Consult Sika for other primer options for recover and high moisture content substrates.		
710 LoVOC Detail Coat	26 WFT over properly treated cracks and joints.		
710 LoVOC Base Coat	26 WFT (23 mils dry) - 61 sf/gal.		
715 LoVOC Textured Top Coat I	14 WFT (12 DFT) 83 sf/gal	12 WFT (10 DFT) 100 sf/gal	18 WFT (16 DFT) 62 sf/gal
715 LoVOC Textured Top Coat II		14 WFT (12 DFT) 83 sf/gal	18 WFT (16 DFT) 62 sf/gal
Total Thickness	35 DFT	45 DFT	55 DFT
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.			

## Sikalastic 710 LoVOC/736 Textured Traffic System – Single Component Aliphatic LoVOC

System Guide	Pedestrian Traffic	Heavy Pedestrian / Light Vehicular	Heavy Vehicular
Primer	Sikalastic Primer - 300 sf/gal. Consult Sika for other primer options for recover and high moisture content substrates.		
710 LoVOC Detail Coat	26 mils wet over properly treated cracks and joints.		
710 LoVOC Base Coat	26 mils wet (23 mils dry) – 61 sf/gal.		
736 Textured Top Coat I	14 WFT (12 DFT) 83 sf/gal	12 WFT (10 DFT) 100 sf/gal	18 WFT (16 DFT) 62 sf/gal
736 Textured Top Coat II		14 WFT (12 DFT) 83 sf/gal	18 WFT (16 DFT) 62 sf/gal
Total Thickness	35 DFT	45 DFT	55 DFT
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.			

## Sikalastic 710 Lo-VOC/22 Lo-Mod Traffic System – Hybrid

System Guide	Standard Vehicular Traffic - Full Broadcast	Heavy Vehicular Traffic - Full Broadcast	Extra Heavy Vehicular Traffic - Full Broadcast
Primer	Sikalastic Primer - 300 sf/gal. Consult Sika for other primer options for recover and high moisture content substrates.		
710 Base Lo-VOC Detail Coat	26 WFT over properly treated cracks and joints.		
710 Base Lo-VOC Base Coat	26 mils wet (23 mils dry) - 61 sf/gal.		
22 Lo-Mod Binder I	20 WFT (20 DFT) - 70 sf/gal	32 WFT (32 DFT) - 50 sf/gal	32 WFT (32 DFT) - 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 WFT (32 DFT) - 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 WFT (18 DFT) - 76/70 sf/gal	21/23 WFT (18 DFT) - 76/70 sf/gal	21/23 WFT (18 DFT) - 76/70 sf/gal
Total Thickness	61 DFT (excluding aggregate)	73 DFT (excluding aggregate)	105 DFT (excluding aggregate)
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.			

### 3.3 Two Component- 700 Series

#### Sikalastic 720/745 Traffic System – Two Component

System Guide	Pedestrian Traffic	Heavy Pedestrian / Light Vehicular	Heavy Vehicular Traffic - Seed and Lock	Heavy Vehicular Traffic - Seed and backroll
Primer	Sikalastic Primer - 300 sf/gal. Consult Sika for other primer options for recover and high moisture content substrates.			
720 Detail Coat	23 WFT over properly treated cracks and joints.			
720 Base Coat	23 WFT(23 DFT) - 70 sf/gal.			
745 AL Top Coat I	12 WFT (12 DFT) - 133 sf/gal	18 WFT (18 DFT) - 90 sf/gal	14 WFT (14 DFT) - 115 sf/gal	14 WFT (14 DFT) - 115 sf/gal
Aggregate	5-10 lbs/100 sf -seeded/ backrolled	10-20 lbs/100 sf -seeded/ backrolled	20-40 lbs/100 sf -seeded	10-15 lbs/100 sf -seeded (backroll optional)
745 AL Top Coat II			18 WFT (18 DFT) - 80 sf/gal	18 WFT (18 DFT) - 90 sf/gal
Aggregate				10-15 lbs/100 sf -seeded/ backrolled
Total Thickness	35 DFT (excluding aggregate)	41 DFT (excluding aggregate)	55 DFT (excluding aggregate)	55 DFT (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.				

#### Sikalastic 720/745 AL Textured Traffic System – Two Component Aliphatic

System Guide	Pedestrian Traffic	Heavy Pedestrian / Light Vehicular	Heavy Vehicular
Primer	Sikalastic Primer - 300 sf/gal. Consult Sika for other primer options for recover and high moisture content substrates.		
720 Detail Coat	23 WFT over properly treated cracks and joints..		
720 Base Coat	23 WFT (23 mils dry) - 70 sf/gal.		
745 AL Textured Top Coat I	12 WFT (12 DFT) 93 sf/gal	10 WFT (10 DFT) 110 sf/gal	16 WFT (16 DFT) 70 sf/gal
745 AL Textured Top Coat II		12 WFT (12 DFT) 93 sf/gal	16 WFT (16 DFT) 70 sf/gal
Total Thickness	35 DFT	45 DFT	55 DFT
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 – Hybrid

System Guide	Standard Vehicular Traffic - Full Broadcast	Heavy Vehicular Traffic - Full Broadcast	Extra Heavy Vehicular Traffic - Full Broadcast
Primer	Sikalastic Primer - 300 sf/gal. Consult Sika for other primer options for recover and high moisture content substrates.		
720 Detail Coat	23 WFT over properly treated cracks and joints.		
720 Base Coat	23 WFT (23 mils dry) - 70 sf/gal.		
22 Lo-Mod Binder I	20 WFT (20 DFT) - 70 sf/gal	32 WFT (32 DFT) - 50 sf/gal	32 WFT (32 DFT) - 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 WFT (32 DFT) - 50 sf/gal
Aggregate II			1.5 lbs/sf broadcasted to refusal
745 AL Top Coat*	18 WFT (18 DFT) - 89 sf/gal	18 WFT (18 DFT) - 89 sf/gal	18 WFT (18 DFT) - 89 sf/gal
Total Thickness	61 DFT (excluding aggregate)	73 DFT (excluding aggregate)	105 DFT (excluding aggregate)
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.			

### 3.4 Decorative

#### Sikalastic 710/735 AL/748 PA Decorative Pedestrian Traffic Systems

System Guide	Pedestrian Traffic	Heavy Pedestrian Traffic	Decorative Quartz Pedestrian Traffic	DecoFlake Pedestrian Traffic
Primer	Sikalastic Primer - 300 sf/gal. Consult Sika for other primer options for recover and high moisture content substrates.			
710 Detail Coat	32 WFT over properly treated cracks and joints.			
710 Base Coat	32 WFT (23 DFT) - 50 sf/gal.			
735 AL Top Coat I	14 WFT (10 DFT) - 115 sf/gal	11 WFT (8 DFT) - 145 sf/gal	14 WFT (10 DFT) - 115 sf/gal	14 WFT (10 DFT) - 115 sf/gal
Aggregate	5-10 lbs/100 sf -seeded/back-rolled	10-15 lbs/100 sf -seeded/back-rolled	40-50 lbs/100 sf - full broadcast	2-4 lbs/100 sf -seeded
735 AL Top Coat II		16 WFT (12 DFT) - 100 sf/gal		
748 PA Top			13 WFT (10 DFT) - 125 sf/gal	9 WFT (7 DFT) - 175 sf/gal
Total Thickness	33 DFT (excluding aggregate)	43 DFT (excluding aggregate)	43 DFT (excluding aggregate)	40 DFT (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.				

#### Sikalastic 710 Lo-VOC /736 AL Lo-VOC/748 PA Decorative Pedestrian Traffic Systems

System Guide	Pedestrian Traffic	Heavy Pedestrian Traffic	Decorative Quartz Pedestrian Traffic	DecoFlake Pedestrian Traffic
Primer	Sikalastic Primer - 300 sf/gal. Consult Sika for other primer options for recover and high moisture content substrates.			
710 Base Lo-VOC Detail Coat	26 WFT over properly treated cracks and joints.			
710 Base Lo-VOC Base Coat	26 WFT (23 WFT) - 70 sf/gal.			
736 AL Lo-VOC Top Coat I	12 WFT (10 DFT) - 133 sf/gal	10 WFT (8 DFT) - 160 sf/gal	12 WFT (10 DFT) - 133 sf/gal	12 WFT (10 DFT) - 133 sf/gal
Aggregate	5-10 lbs/100 sf -seeded/backrolled	10-15 lbs/100 sf -seeded/backrolled	40-50 lbs/100 sf - full broadcast	2-4 lbs/100 sf -seeded
736 AL Lo-VOC Top Coat II		14 WFT (12 DFT) - 115 sf/gal		
748 PA Top			13 WFT (10 DFT) - 125 sf/gal	9 WFT (7 DFT) - 175 sf/gal
Total Thickness	33 DFT (excluding aggregate)	43 DFT (excluding aggregate)	43 DFT (excluding aggregate)	40 DFT (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.				

#### Sikalastic 720/736 AL Lo-VOC/748 PA Decorative Pedestrian Traffic Systems

System Guide	Pedestrian Traffic	Heavy Pedestrian Traffic	Decorative Quartz Pedestrian Traffic	DecoFlake Pedestrian Traffic
Primer	Sikalastic Primer - 300 sf/gal. Consult Sika for other primer options for recover and high moisture content substrates.			
720 Detail Coat	23 WFT over properly treated cracks and joints.			
720 Base Coat	23 WFT (23 DFT) - 70 sf/gal.			
736 AL Lo-VOC Top Coat I	12 WFT (10 DFT) - 133 sf/gal	10 WFT (8 DFT) - 160 sf/gal	12 WFT (10 DFT) - 133 sf/gal	12 WFT (10 DFT) - 133 sf/gal
Aggregate	5-10 lbs/100 sf -seeded/backrolled	10-15 lbs/100 sf -seeded/backrolled	40-50 lbs/100 sf - full broadcast	2-4 lbs/100 sf -seeded
736 AL Lo-VOC Top Coat II		14 WFT (12 DFT) - 115 sf/gal		
748 PA Top			13 WFT (10 DFT) - 125 sf/gal	9 WFT (7 DFT) - 175 sf/gal
Total Thickness	33 DFT (excluding aggregate)	43 DFT (excluding aggregate)	43 DFT (excluding aggregate)	40 DFT (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.				

### 3.5 Two Component- 300 Series

#### Sikalastic 390/391/395 Traffic System – Two Component

System Guide	Pedestrian Traffic	Heavy Pedestrian / Light Vehicular (Stalls) - Seed and Backroll	Heavy Vehicular Traffic (Ramps/Turning Lanes) - Seed and Backroll	Heavy Vehicular Traffic (Ramps/Turning Lanes/ Stalls) - Seed and Lock
Primer	Sikalastic Primer - 300 sf/gal. Consult Sika for other primer options for recover and high moisture content substrates.			
390 Detail Coat	30 WFT over properly treated cracks and joints.			
390 Base Coat	20 WFT (20 DFT) - 80 sf/gal.			
391/395 Top Coat I	15 WFT (15 DFT) - 107 sf/gal	20 WFT (20 DFT) - 80 sf/gal	15 WFT (15 DFT) - 107 sf/gal	15 WFT (15 DFT) - 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	20-40 lbs/100 sf -seeded
391/395 Top Coat II			20 WFT (20 DFT) - 80 sf/gal	20 WFT (20 DFT) - 70 sf/gal
Aggregate			10-15 lbs/100 sf -seeded/ backrolled	
Total Thickness	35 DFT (excluding aggregate)	40 DFT (excluding aggregate)	55 DFT (excluding aggregate)	55 DFT (excluding aggregate)
Sikalastic 391 is not long term UV resistant. Use Sikalastic 395 for all top coats directly exposed to UV.				
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.				

### Sikalastic 395/395/395 Traffic System – Two Component, Single Product

System Guide	Pedestrian Traffic	Heavy Pedestrian / Light Vehicular - Seed and Backroll	Heavy Vehicular Traffic - Seed and Backroll	Heavy Vehicular Traffic (Stalls) - Seed and Lock
Primer	Sikalastic Primer - 300 sf/gal. Consult Sika for other primer options for recover and high moisture content substrates.			
395 Detail Coat	23 WFT over properly treated cracks and joints.			
395 Base Coat	23 WFT (23 mils dry) - 70 sf/gal.			
395 Top Coat I	15 WFT (15 DFT) - 107 sf/gal	20 WFT (20 DFT) - 80 sf/gal	16 WFT (16 DFT) - 100 sf/gal	16 WFT (16 DFT) - 100 sf/gal
Aggregate	5-10 lbs/100 sf -seeded/ backrolled	10-15 lbs/100 sf -seeded/ backrolled	10-15 lbs/100 sf -seeded/ backroll	20-40 lbs/100 sf -seeded
395 Top Coat II			16 WFT (16 DFT) - 100 sf/gal	16 WFT (16 DFT) - 100 sf/gal
Aggregate			10-15 lbs/100 sf -seeded/ backrolled	
Total Thickness	38 DFT (excluding aggregate)	43 DF (excluding aggregate)	55 DFT (excluding aggregate)	55 DFT (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.				

## Sikalastic 390/395 Textured Traffic System – Two Component Aliphatic

System Guide	Pedestrian Traffic	Heavy Pedestrian / Light Vehicular	Heavy Vehicular	
Primer	Sikalastic Primer - 300 sf/gal. Consult Sika for other primer options for recover and high moisture content substrates.			
390 Detail Coat	300 WFT over properly treated cracks and joints.			
390 Base Coat	20 WFT (23 mils dry) - 70 sf/gal.			
395 Top Coat I	14 WFT (14 DFT) 87 sf/gal	12 WFT (12 DFT)	16 WFT (16 DFT) 70 sf/gal	
395 Top Coat II		12 WFT (12 DFT) 93 sf/gal	16 WFT (16 DFT) 70 sf/gal	
Total Thickness	34 DFT	44 DFT	52 DFT	
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.				

## Sikalastic 390/22 Lo-Mod Traffic System – Two Component Hybrid

System Guide	Standard Vehicular Traffic - Full Broadcast	Heavy Vehicular Traffic - Full Broadcast	Extra Heavy Vehicular Traffic - Full Broadcast
Primer	Sikalastic Primer - 300 sf/gal. Consult Sika for other primer options for recover and high moisture content substrates.		
390 Detail Coat	30 mils wet over properly treated cracks and joints.		
390 Base Coat	20 WFT (20 WFT) - 80 sf/gal.		
22 Lo-Mod Binder I	20 WFT (20 DFT) - 70 sf/gal	32 WFT (32 DFT) - 50 sf/gal	32 WFT (32 DFT) - 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 WFT (32 DFT) - 50 sf/gal
Aggregate II			1.5 lbs/sf broadcasted to refusal
395 AL Top Coat*	18 WFT (18 DFT) - 89 sf/gal	18 WFT (18 DFT) - 89 sf/gal	18 WFT (18 DFT) - 89 sf/gal
Total Thickness	58 DFT (excluding aggregate)	70 DFT (excluding aggregate)	102 DFT (excluding aggregate)
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.			

## 4.0 Health and Safety

Refer to product labels and Safety Data Sheets (SDS) for specific health and safety information on the products referenced in this Manual. In order to minimize worker exposure good workplace practices are necessary.

### 4.1 General Precautions

Keep flammable liquids away from all sources of heat, flame and sparks. Avoid eye and skin contact. Wash thoroughly after handling materials. Store containers in a cool, dry, well ventilated area, and keep tightly closed when not in use.

### 4.2 Ventilation

Use only in areas with adequate air movement to remove vapors and prevent atmospheric concentrations of vapors or mists from exceeding current Permissible Exposure Limits (PEL) listed on the MSDS. Provide adequate ventilation for workplace as well as any area where vapors may migrate or be vented. Ventilate interior and exterior application areas and occupied spaces adjacent to application areas during application and for 24 hours minimum after application or until vapor concentrations are below the PEL.

### 4.3 Personal Protection and Equipment

Wear safety glasses or chemical goggles, impermeable gloves and long-sleeve clothing. Provide a facility at job site for workers to change clothes before leaving for the day, and wash contaminated clothing before reuse. Use NIOSH approved respirators equipped for organic vapors and dust/mist for exposure levels below the PEL and for worker comfort. In confined areas, if spraying, or if vapor concentrations are unknown or above the PEL, a full face, supplied air respirator rated for isocyanates should be worn. The concentration of volatiles is found by sampling the air in the workplace and surrounding areas by a certified industrial hygienist or qualified testing laboratory.

### 4.4 Non-Worker Considerations

Consult with adjacent property managers and owners and take necessary steps to prevent vapors from migrating into their buildings through openings and air intakes. Seal doors, windows, air intakes, elevators and other openings that will allow vapors to migrate into occupied spaces. Consider the need to shut off mechanical fresh air intakes until vapors have dissipated as well as applying at night, on weekends or holidays to avoid exposure of building occupants.

## 5.0 Checklists

### 5.1 Tools and Equipment

- Notched and flat squeegees, holders and handles (see System Guides for wet mil application rates)

SQUEEGEE SERRATION	COATING MIL RANGE (Estimated)
Flat	0 – 5 mils
1/8" wide by 1/8" deep V notch	5 – 15 mils
3/16" wide by 3/16" deep V notch	15 – 25 mils
1/4" wide by 1/4" deep V notch	25 – 35 mils
5/32" wide by 5/32" deep V notch	30 – 40 mils
3/8" wide by 3/8" deep V notch	35 – 45 mils
1/2" wide by 1/2" deep V notch	45 + mils

- Wet film thickness gauges
- Phenolic resin/solvent resistant roller covers (3/8 or 1/2 inch nap), assemblies and handles – 4 inch for detailing, and 9 or 18 inch for base and top coats
- Spiked (rounded) shoes
- Blower or spreader for aggregate
- Xylene or mineral spirits for cleaning
- Rags or towels
- Mixing pails
- Measuring containers
- Duct tape or blue tape for masking
- Polyethylene sheeting
- Mixing drill and Jiffy paddles
- Drum opener and agitators with collapsible shafts
- Sikaflex joint sealant, caulking gun and coving/finishing tools
- SikaRepair, SikaTop, or SikaQuick cementitious repair mortars
- Sikadur crack and surface profile repair resins
- Backer rod and bond breaker tape
- Saw for routing cracks
- Grinder, hammer, chisel, tape measure and floor sander
- Shot blaster or scarifier
- Broom, shovel, blower and vacuum
- Moisture meter or moisture test materials
- Work lights and extension cords
- Hand truck for moving materials
- Coveralls and rubber boots
- Rubber and leather gloves
- Goggles or appropriate eye protection
- NIOSH approved respirators (as required)

## 5.2 Application

### ■ Project Overview

- Starting location and sequence
  - Top to bottom or other
  - Full or partial floor access
- Sequence detailing, base coat, intermediate coat, top coat, seal coat

### ■ Check Product

- Type (primer, base coat, top coat, single or multi component)
- Amount (coverage rate)
- Expiration date
- Record batch numbers and location used (floor/column lines)
- Complete components if multi component
- Temperature (needs warm or cold preconditioning)
- Aggregate (right blend, dry without impurities)
- Compatibility (intercoat, line striping product etc.)
- Right tools to work with each product (Refer to tool checklist)
- Topcoat color

### ■ Check Ambient Conditions

- Temperature
- Humidity
- Dew Point (ensure substrate temperature is a minimum 5F above dew point)
- Record weather (sunny, cloudy, partly sunny, etc)

### ■ Check Substrate

- CSP (Concrete surface profile-ICRI)
- Moisture content
- Temperature

### ■ Mock Up Strongly Recommended to Verify

- Surface preparation and profile
- Sequence (detailing through top coat)
- Adhesion
- Compatibility
- Aesthetics
- Durability
- Complete surface preparation
- Install system noting coverage rates, working times, open times and cure times of each step in the system (primer - detail coat - base coat - top coat(s))
- Select and Area 50 ft x 50 ft in Appropriate Location
  - Near entrance
  - Ramp
  - Turning radius
  - Drive lane
  - Parking stall
  - Top deck

■ **Fill up Field Report Form (page 54)**

■ **Application Crew Size**

- Additional surface preparation & Cleaning
- Mixing
- Mixed product transportation
- Product spreading
- Backrolling

■ **Safety Precautions**

- Wear all personal protection
- Ventilate if confined space
- No smoking or any open fire
- Check your tools and equipment

**Protect all surrounding spots which should not receive coating**

**Setup mixing station and protect the area from spills**

**Setup area for empty pails and waist**

**Check pot life of each product if it is two component**

**Segregate top coat product by batch number**

**Check wet mill thickness after backrolling**

**Protect all surrounding spots which should not receive coating**

**Setup mixing station and protect the area from spills**

**Setup area for empty pails and waist**

**Check pot life of each product if it is two component**

**Segregate top coat product by batch number**

**Check wet mill thickness after backrolling**

## 6.0 Surface Preparation

### 6.1 Concrete

Concrete should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by blast cleaning or equivalent mechanical means. Required profile is CSP (Concrete Surface Profile) 3 – 4 per ICRI (International Concrete Repair Institute) guidelines. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes, and any other contaminants.

Structures should be inspected to determine surface tensile strength, overall compressive strength, moisture content and movement, presence of contaminants, evidence of shrinkage, thermal movement, or structural movement. Problems stemming from physical abuse, chemical contamination or design error will require different methods of repair. A change in the use of a facility can also subject the Sikalastic Traffic System to a different set of service parameters from those for which it was originally designed.

Concrete should have a minimum compressive strength of 24.13 MPa (3500 psi), and should be cured a minimum of 7 days and aged a minimum of 21-28 days, including curing time, before applying the traffic membrane. Moist or sheet curing methods should be used, as opposed to chemical curing, which may interfere with the bond of the membrane. Generally, the traffic membrane should only be installed on structural concrete with dense stone aggregates, as moisture content of cured concrete should be no more than 4%. Use of lightweight aggregates should be avoided, as they may have lower compressive strength and generally will result in concrete moisture content over 5% and even up to 20% when cured.

The concrete surfaces should exhibit minimum tensile bond strength of 1.4 to 2.1 MPa (200 to 300 psi), or 100% cohesive failure in the concrete substrate, per the pull-off strength procedure described in ASTM D7234-12: Standard Test Method for Pull-Off Adhesion Strength of Coatings on Concrete Using Portable Adhesion Testers.

Concrete structures that have been subjected to mechanical damage caused by impact or abrasion, chemical attack, or reinforcing steel corrosion should be restored to provide a uniform, sound substrate for traffic membrane application. Deteriorated concrete is typically removed and the surrounding sound concrete is saw-cut using procedures described in ICRI No. 310.1R-2008. Sika provides a wide range of replacement, patching and repair materials. Consult your Sika representative for recommendations based on project requirements.

Concrete structures that have experienced cracking and other similar deterioration due to possible design issues should be evaluated by a licensed structural engineer for remedial repair. Sika provides a range of crack repair resins, penetrating corrosion inhibitors, FRT structural reinforcement, and corrosion management systems. Consult your Sika representative for recommendations based on project requirements.

Surface voids, excess porosity, and elevated moisture content of a concrete deck can cause pinholes and other adverse effects on the performance of the Sikalastic Traffic System. If voids are not filled prior to application, trapped air may expand to create a condition known as “out-gassing,” resulting in the formation of bubbles during or immediately after base coat installation. This can be worsened by water vaporizing within the concrete, as well as by coating application during mid-day when the air and substrate temperatures are increasing. Bubbles that pop and back fill are not a problem. However, porosity in the concrete surface can result in pinholes that do not pop and backfill, resulting in avenues for moisture and moisture born chemical intrusion.

If pinholing is an issue or if measures are to be taken to minimize their occurrence, the effect of surface voids, excess porosity, and elevated moisture content can usually be addressed by the application of cementitious repair mortars and epoxy-based surfacings and primers, and by working during cooler times of the day or in the evening.

Rough edges and protrusions in the surface of the concrete, such as trowel chatter, mortar splatter, fins, ridges, or sharp projections should be removed during surface preparation to avoid non-uniform thickness of the traffic membrane.

Drainage at the membrane level is important as well. A monolithic concrete substrate slope of a minimum 1/8 in/ft (11 mm/m) should be maintained. Slope is best achieved with a monolithic pour as opposed to separate concrete fill. Consult Sika for various methods to create slope to drain or treat low areas and depressions.

## **6.2 Plywood**

Plywood decks are normally used only in pedestrian applications where light to moderate loads are expected. 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 coating.

Plywood should be at least 1/2” thick and attached and supported according to the APA Plywood Construction Guide and other APA literature, 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 in. and fill with Sikaflex sealant. Suitable edge support to prevent differential deflection between panels should be provided. Panel edges should be tongue and groove or supported on solid blocking. Space panels 1/8 to 3/16 in. at panel ends, and fill joints flush with Sikaflex sealant. Seams should generally be detailed with embedded fabric reinforcement, Sika Flexitape Heavy, saturated placed in membrane detail coat.

Any damaged/rotted wood should be removed and replaced in kind prior to the application of any traffic coating system.

## **6.3 Vertical and Incidental Substrates**

The vertical surface to which the waterproofing membrane is adhered should have a clean, sound finish free from moisture, untreated cracks and bond inhibiting materials. All incidental substrates such as metal and coated materials should be cast in place or firmly anchored to prevent any horizontal shear of the membrane. Joints at edges of any substrate that is not firmly anchored should be treated as expansion joints terminating on the deck substrate. Metal should be thoroughly cleaned by grinding or blast cleaning prior to priming.

## **6.4 Existing Coatings – Evaluation**

The suitability of an existing coating to serve as a substrate for the application of a new coating system application is contingent on the integrity of the existing coating, the bond of the existing coating to the substrate, and the adhesive bond of the new coating to the existing coating.

Recoating an existing polyurethane coating is the most common application. Contact Sika for recommendations if considering recoating an existing coating that is other than polyurethane-based.

The existing polyurethane coating should be carefully evaluated for adhesion, crack and joint treatment, and wear. Based on this evaluation a determination should be made by the specifier if the existing coating is suitable for recoating or needs to be all or partly removed. In addition, the cracks and joints should be evaluated as to whether they should be recaulked or detailed.

To establish the quality of the bond of the coating to the substrate as well as the integrity of the membrane the following on site evaluation methods should be considered:

### **Visual Observation**

The base and top coats of the existing polyurethane coating should be inspected to determine areas worn to concrete as well as areas of exposed and worn base coat. A functioning top coat should be uniform in appearance, well bonded and contain encapsulated aggregate.

### **Mockup**

Surface preparation and products selected should be evaluated by mockup to verify compatibility and adhesion as well as desired skid resistance and aesthetics for approval by specifier or owner.

## **6.5 Existing Coatings – Adhesion Testing**

The performance of an adhesion test is one method of evaluating an existing coating. There are two adhesion test methods commonly used for this type of evaluation.

### **Tensile Strength Test using Adhered Pucks (Dollies)**

This test method is in accordance with ASTM D7234-12: Standard Test Method for Pull-Off Adhesion Strength of Coatings on Concrete Using Portable Adhesion Testers. Refer to the ASTM test method for additional information. The following is a simplified description of the performance of this test method.

1. Prepare existing coating as proposed for the project.
2. Apply Sikalastic Recoat Primer if proposed for the project and allow to cure until tack free.
3. Apply Sikalastic Base or Top Coat at wet mil thickness appropriate for the material and as proposed for the project. Allow single-component coatings to cure for 7 days; allow two-component coatings to cure for 3 days. DO NOT seed with aggregate.
4. Adhere 2" diameter test pucks to cured coating with compatible adhesive such as Loctite Super Glue Pro, and allow adhesive to cure overnight. A minimum of three test puck samples are statistically required to provide a meaningful result for a test area. Variations in existing coating type/application, a larger project size (greater than 10,000 sf), separate deck areas, etc. are project conditions that may warrant the performance of additional tests samples.
5. Score around each puck through the coating (new and existing) down to the underlying substrate.
6. Use a portable pull-off adhesion tester of a type compatible with the test pucks to apply a tensile load to each puck until sample failure.
7. Evaluate the results. A test result of 200 psi is considered acceptable. The existing coating is a suitable substrate for recoating.

### **Peel Strength Test using Saturated Fabric**

The following is a simplified description of the performance of this test method.

1. Prepare existing coating as proposed for the project.
2. Apply Sikalastic Recoat Primer if proposed for the project and allow to cure until tack free.

3. Prepare 12" long strips of 6" wide Sika Flexitape Heavy fabric. A 6" length of the fabric strip will be saturated with coating, with 6" left unsaturated to allow for attachment to the test scale.
4. Apply Sikalastic Base or Top Coat as proposed for project at wet mil thickness sufficient to allow saturation of the Flexitape. Fully saturate a 8" length of Flexitape with coating. Allow single-component coatings to cure for 7 days; allow two-component coatings to cure for 3 days. DO NOT seed with aggregate.
5. A minimum of three test peel samples are statistically required to provide a meaningful result for a test area. Variations in existing coating type/application, a larger project size (greater than 10,000 sf), separate deck areas, etc. are project conditions that may warrant the performance of additional tests samples.
6. Score through each adhered Flexitape sample and through the existing coating down to the underlying substrate to create a 1" wide test strip. Cut the loose fabric as well.
7. Attach a tarp clip to the loose end of each test strip (TEKTON 6268 or equal). Hook a digital scale (RAPALA 50 LB or equal) to the tarp clip. Apply a 180° load until strip peels off.
8. Evaluate the results. A test result of 8 lbs./linear in. is considered acceptable. The existing coating is a suitable substrate for recoating.

### References

See ASTM C1127: Standard Guide for Use of High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane with an Integral Wearing Surface, ICRI Guideline No. 710.2: Horizontal Waterproofing of Traffic Surfaces, and ICRI Guideline No. 210.3R: Guide to Using In-Situ Tensile Pull-Off Tests to Evaluate Bond of Concrete Surface Materials for additional information.

## 6.6 Existing Coatings – Recoating Options

The following recoat options are suitable for different conditions. The selection of a recoat option should be made following a full evaluation of the existing coating by the project specifier.

The intent of the recoat requirements is to:

- Ensure that the existing waterproofing layer is intact - if not, to provide localized repair or to apply a new polyurethane base coat waterproofing layer.
- Ensure that the polyurethane top coat that is applied matches the project requirements - light pedestrian traffic applications require one top coat application; both light vehicular and heavy vehicular traffic applications require two top coat applications. Reference the applicable Sikalastic Product Data Sheet for top coat requirements.

### Option 1 – Full System with Complete Base Coat

It is generally recommended that a full system with new waterproofing base coat and new traffic-bearing top coat be applied if there is any question regarding the condition of the existing base coat. Apply the new waterproofing base coat and the traffic-bearing polyurethane top coat over the entire area at the specified thicknesses as indicated in the applicable Sikalastic System Data Sheet.

### Option 2 – Partial System with Base Coat Repairs

If the existing base coat is intact except for localized wear and damage, the new waterproofing base coat can be applied as a repair of the existing base coat.

Prepare and prime any exposed concrete substrate areas in accordance with the system Product Data Sheet. DO NOT apply Sikalastic FTP, Sikalastic PF Lo-VOC, or Sikalastic MT primers to the existing coating. Overlap the waterproofing base coat a minimum of 2" onto the existing coating beyond the repair area. Apply the new traffic-bearing polyurethane top coat over the entire area at the specified thickness as indicated in the applicable Sikalastic System Data Sheet.

### **Option 3 - Top Coat Resurfacing**

If the existing base coat is intact, only a new traffic-bearing polyurethane top coat need be applied at the specified thickness as indicated in the applicable Sikalastic System Data Sheet.

## **6.7 Existing Coatings - Surface Preparation**

Power wash, sandblast, or mechanically abrade the existing coating surface to remove dirt, contaminants, and any loose/poorly bonded coating. Sandblasting or mechanical abrasion is typically required only if the existing coating surface exhibits a hard, nonporous surface texture.

Solvent clean any areas of the existing coating surface exhibiting oil/grease contamination to remove contaminants that will interfere with the bond of the new coating system.

Apply Sikalastic Recoat Primer, Sikalastic Primer or Sikalastic FTP Lo-VOC at the approximate rate of 300 sf per gallon to the prepared existing coating surface. Sikalastic Recoat Primer is suitable for application to concrete substrate areas exposed during coating removal or from wear. Alternatively, solvent wipe the existing coating surface (high quality Xylene recommended) and allow the solvent to completely evaporate.

Note: Some existing coatings may not require the use of either recoat primer or a solvent wipe. However, elimination of this step typically increases the potential for inadequate bonding of the new coating system to the existing coating surface. This should only be considered if acceptable adhesion is confirmed by means of an adhesion test.

## **7.0 Substrate Rehabilitation**

### **7.1 Surface Irregularities Less Than ¼” In Depth**

Concrete substrates that exhibit minor surface irregularities or low areas up to ¼” in depth are typically addressed by the use of cementitious repair mortar suitable for a thin/feather edge application. However, should such a product not be readily available, these types of surface conditions can be addressed by an initial application of Sikalastic 720 or Sikalastic 390 base coat either neat or as a slurry mixed 1:1 with 20-40 kiln-dried sand, as follows:

1. Shot blast per standard Sikalastic traffic deck coating surface preparation.
2. Apply Sikalastic FTP, Sikalastic FTP Lo-VOC, Sikalastic PF Lo-VOC, or Sikalastic MT primers per standard deck coating procedures and allow to cure.
3. Apply Sikalastic 720 or Sikalastic 390 base coat either neat or as a slurry mixed 1:1 with 20-40 kiln-dried sand, to a maximum ¼” depth and allow to cure.
4. Apply Sikalastic base coating per standard deck coating procedures.

### **7.2 More Significant Substrate Conditions**

There are several options available to address concrete substrates with high moisture content (up to 10%), and concrete substrates with severe non-structural cracking, spalling, or very uneven surfaces by utilizing Sikafloor EpoCem 81, Sikadur 55 SLV and Sikadur 22 Lo-Mod/22 Lo-Mod FS.

### **7.3 Concrete Substrates with High Moisture Content**

Sikafloor EpoCem 81 is suitable for application to concrete substrates that contain a maximum 10 % moisture content when measured with a Tramex Concrete Moisture Encounter meter.

1. Shot blast per standard Sikafloor EpoCem 81 surface preparation.
2. Apply Sikafloor EpoCem 81 two-component primer at the approximate rate of 300 sf per gallon and allow to cure tack-free.
3. Apply Sikafloor EpoCem 81 three-component slurry to a thickness of 3 mm in a uniform application over the entire affected deck area. Allow to cure tack-free.
4. Apply Sikalastic FTP LoVOC Primer or Sikalastic MT primer per standard deck coating procedures.

### **7.4 Concrete Substrates with Local Cracking**

Sikadur 55 SLV is suitable for application to localized cracks in the concrete substrate that require stabilization in excess of what is obtained by normal routing and sealing.

1. Clean cracks per standard recommendations prior to application of Sikadur 55 SLV.
2. Apply Sikadur 55 SLV locally to selected cracks, and allow to cure.
3. Shot blast per standard surface preparation for Sikalastic deck coating.
4. Rout and seal cracks greater than 1/16” per standard deck coating crack treatment.
5. Apply Sikalastic FTP, Sikalastic FTP Lo-VOC, Sikalastic PF Lo-VOC, or Sikalastic MT primers per standard deck coating procedures.
6. Detail with base coat all visible cracks per standard deck coating crack treatment prior to application of remaining system.

## 7.5 Concrete Substrates with Widespread Cracking

Sikadur 55 SLV is suitable for application to address widespread cracking in the concrete substrate that requires stabilization in excess of what is obtained by normal routing and sealing.

1. Shot blast per standard Sikadur 55 SLV healer/sealer surface preparation.
2. Apply Sikadur 55 SLV sufficiently in a uniform application over the entire affected deck area to fill cracks and seal entire deck, and allow to cure.
3. Shot blast per standard surface preparation for Sikalastic deck coating.
4. Rout and seal cracks greater than 1/16" per standard deck coating crack treatment.
5. Apply Sikalastic FTP, Sikalastic FTP Lo-VOC, Sikalastic PF Lo-VOC, or Sikalastic MT primers per standard deck coating procedures.
6. Detail with base coat all visible cracks per standard deck coating crack treatment prior to application of remaining system.

## 7.6 Concrete Substrates with an Uneven Surface

Sikadur 22 Lo-Mod/Sikadur 22 Lo-Mod FS is suitable for application as a leveling coat to address a rough, uneven concrete surface that will potentially telegraph through the traffic deck coating system.

1. Shot blast per standard Sikadur 22 Lo-Mod/Sikadur 22 Lo-Mod FS surface preparation.
2. Apply 22 Lo-Mod at 20-30 mils uniformly over entire area, followed immediately with a broadcast 20-40 mesh silica sand at roughly 1-1.5 lbs. per sf.
3. Allow Sikadur 22 Lo-Mod/Sikadur 22 Lo-Mod FS to cure and remove all excess sand.
4. Apply an additional layer of Sikadur 22 Lo-Mod/Sikadur 22 Lo-Mod FS per #2 and #3 above if additional thickness is required, on an as-needed basis.
5. Keep surface clean and dry prior to application of deck coating.
6. Apply one heavier base coat or two complete base coats over entire surface followed by remaining top coats of selected Sikalastic system. The intent is to achieve the full base coat dry mil thickness above the aggregate prior to top coat application.

## 7.7 Concrete Substrates with Widespread Cracking and Uneven Surface

A combination of Sikadur 55 SLV and Sikadur 22 Lo-Mod/Sikadur 22 Lo-Mod FS is suitable for application to address widespread cracking in the concrete substrate that requires stabilization in excess of what is obtained by normal routing and sealing, as well as a rough, uneven concrete surface that will potentially telegraph through the traffic deck coating system.

1. Shot blast per standard Sikadur 55 SLV healer/sealer surface preparation.
2. Apply Sikadur 55 SLV sufficiently to fill cracks and seal entire deck.
3. Apply Sikadur 22 Lo-Mod/Sikadur 22 Lo-Mod FS, wet on wet over Sikadur 55 SLV. Sikadur 22 Lo-Mod/Sikadur 22 Lo-Mod FS should be applied at 20 mils minimum uniformly over entire area, followed immediately with a broadcast of 20-40 mesh silica sand at roughly 1 lb. per sf. If Sikadur 55 SLV becomes tack free prior to the Sikadur 22 Lo-Mod/Sikadur 22 Lo-Mod FS application, mechanical preparation of the substrate (shot blasting or grinding) will be required to redo the process again.
4. Allow Sikadur 22 Lo-Mod/Sikadur 22 Lo-Mod FS to cure and remove all excess sand.
5. Keep surface clean and dry prior to application of deck coating.
6. Apply one heavier base coat or two complete base coats over entire surface followed by remaining top coats of selected Sikalastic system. The intent is to achieve the full base coat dry mil thickness above the aggregate prior to top coat application.

## 8.0 Priming

### 8.1 Concrete and Plywood – Sikalastic Primer

Sikalastic Primer is suitable for application to concrete substrates that contain a maximum 4% moisture content when measured with a Tramex Concrete Moisture Encounter meter.

Sikalastic Primer is also suitable for application to plywood substrates. Sikalastic Primer is not suitable for application to metal substrates.

No mixing needed for Sikalastic Primer. This is a single component product ready to use out of the pail.

### 8.2 Concrete and Plywood – Sikalastic Primer

Sikalastic FTP primer is suitable for application to concrete substrates that contain a maximum 4% moisture content when measured with a Tramex Concrete Moisture Encounter meter.

Sikalastic FTP primer is also suitable for application to plywood substrates. Sikalastic FTP primer is not suitable for application to metal substrates.

#### **Mixing Sikalastic FTP Primer 7 gal. Kit**

As shipped, each Sikalastic FTP 7 gal. kit consists of two 1 gal. cans Part A and two short-filled pails Part B (1.25 gal. each). This kit yields 7 gal. after dilution with 2.5 gal. potable water (1.25 gal. water in each Part B pail) after thoroughly mixing in Part A.

Premix both components. Sikalastic FTP, Part A is light amber in color. Sikalastic FTP, Part B is dark olive green in color and may appear black in the container. 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 thoroughly with a low speed (300 – 500 rpm) drill with Jiffy paddle for 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.

#### **Mixing Sikalastic FTP Primer 1 gal. Kit**

As shipped, each Sikalastic FTP 1 gal. kit consists of a short-filled can of Part A (0.28 gal.) and a short filled gallon can of Part B (0.35 gal.). This kit yields 1 gal. after dilution with 0.35 gal. potable water.

Premix both components. Sikalastic FTP, Part A is light amber in color. Sikalastic FTP, Part B is dark olive green in color and may appear black in the container. Add the 0.28 gallon of Sikalastic FTP, Part A to the 0.35 gallons of Part B in the short filled Part B pail. Mix thoroughly with a low speed (300 – 500 rpm) drill with Jiffy paddle for 3 minutes. This mixture will appear as a uniform light olive green color. Slowly add 0.35 gallons of potable water to fill the gallon can 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.

#### **Applying Sikalastic FTP Primer**

It is important to remember that Sikalastic FTP primer has a limited pot life of approximately 1 hour at 77°F (25°C) and 50% relative humidity. Do not use beyond this timeframe regardless of whether or not the product appears to still be usable. Ensure that all surface preparation is complete and application equipment is in good working order before starting the mixing sequence.

Apply Sikalastic FTP Primer with a flat squeegee or phenolic resin core roller at approximately 300 sf/gal. Backroll and work well into the substrate to ensure adequate penetration and sealing and puddles are avoided.

Fully dispersed material will appear as light green in color. Prevent from freezing and allow primer to cure a min-

imum of 3-4 hours at 75°F and 50% RH or until tack free before applying base coat. Recoat window is generally 48 hours; contact Sika if exceeded. If repriming is necessary, the previously primed surface should be lightly shot blasted or similar prior to repriming.

### **8.3 Concrete and Plywood – Sikalastic FTP Lo-VOC Primer**

Sikalastic FTP Lo-VOC primer is suitable for application to concrete and plywood substrates that contain a maximum 5% moisture content (interior protected decks), 4% moisture content (exterior decks), and 5% moisture content – two applications (exterior decks) when measured with a Tramex Concrete Moisture Encounter meter.

Sikalastic FTP Lo-VOC primer is also suitable for application to plywood substrates. Sikalastic FTP Lo-VOC primer is not suitable for application to metal substrates.

#### **Mixing Sikalastic FTP Lo-VOC Primer**

Each Sikalastic FTP Lo-VOC primer 15 gal. kit consists of two pails of Part A (5 gal. each) and one pail of Part B (5 gal.). Each Sikalastic FTP Lo-VOC primer 3 gal. kit consists of a short-filled pail of Part A (2 gal.) and one can of Part B (1 gal.).

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. Fully mixed material will appear as light green transparent in color.

#### **Applying Sikalastic FTP Lo-VOC Primer**

It is important to remember that Sikalastic FTP Lo-VOC primer has a limited pot life of approximately 20 minutes at 77°F (25°C) and 50% relative humidity. Ensure that all surface preparation is complete and application equipment is in good working order before starting the mixing sequence.

Apply Sikalastic FTP Lo-VOC Primer with a flat squeegee at approximately 300 sf/gal. and then backroll with a phenolic resin core roller. Coverage will vary depending on the porosity and roughness of the prepared substrate. Do not apply by dipping roller into mixing container. Pour a bead of product in the form of a ribbon on the substrate to be coated and then spread with squeegee and backroll.

Fully dispersed material will appear as light green transparent in color. Allow primer to cure a minimum of 4-6 hours at 77°F (25°C) and 50% RH or until tack free before applying base coat or second coat of Sikalastic FTP Lo-VOC Primer. Recoat window is generally 16 hours; contact Sika if exceeded. If repriming is necessary, the previously primed surface should be lightly shot blasted or similar prior to repriming.

### **8.4 Concrete and Plywood – Sikalastic PF Lo-VOC Primer**

Sikalastic PF primer is suitable for application to concrete and plywood substrates that contain a maximum 5% moisture content (interior protected decks), 4% moisture content (exterior decks), and 5% moisture content – two applications (exterior decks) when measured with a Tramex Concrete Moisture Encounter meter.

Sikalastic PF Lo-VOC Primer is also suitable for application to plywood substrates, and to metal flanges and penetrations.

### **Mixing Sikalastic PF Lo-VOC Primer**

Each Sikalastic PF Lo-VOC primer 10 gal. kit consists of one pail of Part A (5 gal. each) and one pail of Part B (5 gal.). Each Sikalastic PF Lo-VOC primer 2 gal. kit consists of a short-filled pail of Part A (1 gal.) and one can of Part B (1 gal.).

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. Fully mixed material will appear gray in color.

### **Applying Sikalastic PF Lo-VOC Primer**

It is important to remember that Sikalastic PF primer has a limited pot life of approximately 30 minutes at 77°F (25°C) and 50% relative humidity. Ensure that all surface preparation is complete and application equipment is in good working order before starting the mixing sequence.

Apply Sikalastic PF Primer with a flat squeegee at approximately 200 sf/gal. and then backroll with a phenolic resin core roller. Coverage will vary depending on the porosity and roughness of the prepared substrate. Do not apply by dipping roller into mixing container. Pour a bead of product in the form of a ribbon on the substrate to be coated and then spread with squeegee and backroll.

Fully dispersed material will appear as gray in color. Allow primer to cure a minimum of 3-5 hours at 75°F and 50% RH or until tack free before applying base coat or second coat of Sikalastic PF Primer. Recoat window is generally 16 hours; contact Sika if exceeded. If repriming is necessary, the previously primed surface should be lightly shot blasted or similar prior to repriming.

Sikalastic PF Lo-VOC Primer can also be used to build up uneven substrate surfaces to a thickness of 1/8". Apply Sikalastic PF Primer at a rate of up to 20 sf/gal. in this application method.

## **8.5 Concrete and Plywood - Sikalastic MT Primer**

Sikalastic MT primer is suitable for application to concrete and plywood substrates that contain a maximum 6% moisture content when measured with a Tramex Concrete Moisture Encounter meter. One primer application is sufficient for a maximum of 5% moisture content; two primer applications are required for a maximum of 6% moisture content.

In addition, the use of Sikalastic MT primer is required for non-vented concrete/steel pan composite decks and split-slab applications with encapsulated waterproofing in the event that these applications are approved by Sika on a per-project basis.

Sikalastic MT Primer is also suitable for application to plywood substrates, and to metal flanges and penetrations.

### **Mixing Sikalastic MT Primer**

Each Sikalastic MT primer 4.5 gal. kit consists of a short-filled pail of Part A (3 gal.) and a short-filled pail of Part B (1.5 gal.).

Premix both components separately using a low speed (300 – 500 rpm) drill with 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). Fully mixed material will appear as red transparent in color.

### **Applying Sikalastic MT Primer**

It is important to remember that Sikalastic MT primer has a limited pot life of approximately 20 minutes at 77°F (25°C) and 50% relative humidity. Ensure that all surface preparation is complete and application equipment is in good working order before starting the mixing sequence.

Apply Sikalastic MT Primer with a 1/8" squeegee at approximately 175 sf/gal. and then backroll with a phenolic resin core roller with pressure after 20 minutes. Coverage will vary depending on the porosity of the prepared substrate, typically from 160 – 200 sf/gal. (175 sf/gal. on average). Do not apply by dipping roller into mixing container. Pour a bead of product in the form of a ribbon on the substrate to be coated and then spread with squeegee and backroll.

Fully dispersed material will appear as red transparent in color. Allow primer to cure a minimum of 7 hours at 75°F and 50% RH or until tack free before applying base coat or second coat of Sikalastic MT Primer. Recoat window is generally 24-48 hours; contact Sika if exceeded. If repriming is necessary, the previously primed surface should be lightly shot blasted or similar prior to repriming.

## **8.6 Metal - Sikaflex 260, Sikalastic PF Lo-VOC or Sikalastic EP Primers**

Thoroughly clean metal substrates grinding or blast cleaning. Apply metal primer to dry, clean, oil free surface with a brush, dauber or spray. Apply at substrate temperatures of at least 40 degrees F and rising. Always check a dew point. Once container has been opened or components mixed use content immediately. Do not attempt to reseal or reuse partial containers. Allow to dry a minimum drying time according to PDS before applying base coat. If base coat cannot be installed within recoat window, then reprime. See Product Data Sheets for additional information.

Sikalastic PF Lo-VOC and Sikalastic MT primers are also suitable for application to properly prepared metal substrates.

## **8.7 Existing Coatings - Sikalastic Recoat Primer**

Sikalastic Recoat Primer is suitable for application to clean and dry existing polyurethane coatings, and to new polyurethane coatings that have exceeded their recoat window.

Sikalastic Recoat Primer is suitable for application to incidental concrete substrate areas of up to 100 sf. that may be exposed during surface preparation of existing coatings.

### **Mixing Sikalastic Recoat Primer**

Each Sikalastic Recoat Primer 10 gal. kit consists of Part A (5 gal.) and Part B (5 gal.). A separate mixing pail is required.

Premix both components separately using a low speed (300 – 500 rpm) drill with 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. Combine equal amounts of Part A and Part B into a separate mixing pail 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). Fully mixed material will appear as gray in color.

### **Applying Sikalastic Recoat Primer**

It is important to remember that Sikalastic Recoat Primer has a limited pot life of approximately 25 minutes at 75°F (24°C) and 50% relative humidity. Ensure that all surface preparation is complete and application equipment is in good working order before starting the mixing sequence.

Apply Sikalastic Recoat Primer with phenolic resin core roller at approximately 300 sf/gal. Coverage will vary the surface roughness and porosity of the prepared substrate.

Allow primer to cure a minimum of 3 hours at 75°F and 50% RH or until tack free before applying base coat or recoating. Recoat window is generally 12 hours; contact Sika if exceeded. If repriming is necessary, the previously primed surface should be lightly shot blasted or similar prior to repriming.

## 8.8 Sikalastic Recoat Primer with Sikalastic 700 ACL

Sikalastic Recoat Primer can be applied with Sikalastic 700 ACL as an accelerator. Add one quart Sikalastic 700 ACL accelerator to 5 gallons of mixed Sikalastic Recoat 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.

Allow accelerated primer to cure a minimum of 80 minutes at 75°F and 50% RH or until tack free before applying base coat or recoating. Recoat window is generally 6 hours; contact Sika if exceeded. If repriming is necessary, the previously primed surface should be lightly shot blasted or similar prior to repriming.

## 8.9 Existing Coatings- Sikalastic FTP Lo-VOC Primer

Sikalastic FTP Lo-VOC Primer is suitable for application to clean and dry existing polyurethane coatings, and to new polyurethane coatings that have exceeded their recoat window.

Sikalastic FTP Lo-VOC Primer is suitable for application to incidental concrete substrate areas of up to 100 sf. that may be exposed during surface preparation of existing coatings.

## 8.10 Existing Coatings- Sikalastic Primer

Sikalastic Primer is suitable for application to clean and dry existing polyurethane coatings, and to new polyurethane coatings that have exceeded their recoat window.

Sikalastic Primer is suitable for application to incidental concrete substrate areas of up to 100 sf. that may be exposed during surface preparation of existing coatings.

## 8.11 Priming Chart

	Sikalastic Primer	Sikalastic FTP	Sikalastic FTP Lo-VOC	Sikalastic PF Lo-VOC	Sikalastic MT	Sikalastic Recoat	Sikalastic EP Primer
<b>Basis</b>	1c Polyurethane	2C Water-borne Epoxy	2C Epoxy	2C Pore-Filling Epoxy	2C Moisture Tolerant Epoxy	2C Polyurethane	2C Epoxy
<b>Use On</b>	Concrete & Ply-wood	Concrete & Plywood	Concrete & Plywood	Concrete, Plywood, Metal	Concrete and Ply-wood	Existing Urethane Coating, Interply	Concrete, Asphalt, Metal
<b>Use Why</b>	Fast Cure, No Mixing, Cost effective	Cost effective	Higher Moisture and Porous Substrate	Porous and uneven substrates	Higher Moisture	Recoating or missed recoat window	Metal Substrate
<b>Max. Mois-ture</b>	4%	4%	6%	4% Exterior 5% Interior	6%	N/A	4%
<b>Coverage (Typ.)</b>	300 sf/gal	300 sf/gal	300 sf/gal	20-200 sf/gal, 1/8" max. thickness	175 sf/gal	300 sf/gal	250 sf/gal
<b>Cure Time</b>	45 min	3-4 hours	4-6 hours	3-5 hours	6-8 hours	3 hours	9 hours
<b>Recoat Time</b>	72 hours	48 hours	16 hours	16 hours	24-48 hours	12 hours	72 hours

	Concrete	Wood	Metal	PU Sealant	PU Coating	EP Cpainting	PVC
<b>Sikalastic Primer</b>	X	X		X	X	X	
<b>Sikalastic FTP</b>	X					X	
<b>Sikalastic FTP LoVOC</b>	X	X		X	X	X	
<b>Sikalastic PF LoVOC</b>	X	X	X			X	
<b>Sikalastic MT</b>	X	X		X		X	
<b>Sikalastic EP</b>	X	X	X	X	X	X	
<b>Sika Primer 260</b>			X				
<b>Sika Primer 449</b>							X
<b>Sikalastic Recoat Primer</b>		X		X	X		

## 9.0 Detailing Cracks and Joints

### 9.1 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.

### 9.2 Cracks and joints over 1/16 inch 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.

### 9.3 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.

### 9.4 Panelized Joints

In General 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.

### 9.6 Horizontal terminations (exposed to traffic)

Make ¼ inch x ¼ inch sawcut and clean thoroughly. Allow base coat and subsequent top coats to partially fill joint. Ensure each coat is placed at no greater than 40 mils for base coat and 20 mils for top coat to prevent solvent entrapment and allow proper cure. Apply sealant prior to overcoating if movement is anticipated.

### 9.7 Turn-ups and vertical projections

Apply ½ inch to 1 inch cant bead of Sikaflex sealant. Apply a detail coat of Sikalastic 710 Base at 32 mils wet, Sikalastic 710 Base Lo-VOC at 26 mils wet, Sikalastic 720 Base at 23 mils wet, or Sikalastic 390 Base at 30 mils wet, minimum 4 inches wide, centered over joint. Allow to cure until tack free before overcoating.

### 9.8 Plywood seams

Apply Sika Flexible fabric reinforcing scrim embedded to saturation in base coat as detail coat. Alternatively, a fleece-backed reinforcement tape adhered to substrate may be applied over seam followed by detailing to saturation with base coat.

### 9.9 Scaled concrete and surface voids

Deteriorated concrete surface areas that can allow coating to pool in low areas and thin out in high areas must be repaired prior to application of the membrane. In addition to solutions using repair mortars or epoxy, Sikalastic 720 Base or 390 Base may be applied either as is or extended 1:1 by volume with 20-40 mesh aggregate by trowel or flat squeegee to clean and primed substrate to accomplish limited surface repairs up to 1 inch in depth. Consult Sika for limitations and recommendations on other repair solutions depending on project requirements

## 10.0 Base and Top Coats

### 10.1 Single Component Products

#### **Sikalastic 710 Base**

Thoroughly mix using a mechanical mixer and Jiffy paddle 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) using a 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 or until tack free before top coating.

#### **Sikalastic 710 Base Lo-VOC**

Thoroughly mix using a mechanical mixer and Jiffy paddle 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) using a 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 or until tack free before top coating. Use optional **Sikalastic 710 Base Lo-VOC Booster** to accelerate cure. Add a maximum of 1 quart to 4.75 gallons (or 1:19 ratio) and only to material that will be applied within 2-3 hours. Allow coating to cure a minimum of 12 hours regardless of temperature or amount used before applying subsequent top coats.

#### **Sikalastic 710 NP Base**

This is a primerless base coat. Thoroughly mix using a mechanical mixer and Jiffy paddle 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 (23 DFT) using a 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 or until tack free before top coating.

#### **Sikalastic 715 Top**

Thoroughly mix using a mechanical mixer and Jiffy paddle 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) using a flat or notched squeegee and backroll using a phenolic resin core roller. 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°F and 50% RH or until tack free between coats, and a minimum of 72 hours before opening to vehicular traffic.

#### **Sikalastic 715 Top Lo-VOC**

Thoroughly mix using a mechanical mixer and Jiffy paddle 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) using a 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 or until tack free before top coating. Use optional **Sikalastic 715 Top Lo-VOC Booster** to accelerate cure. Add a maximum of 1 quart to 4.75 gallons (or 1:19 ratio) and only to material that will be applied within 2-3 hours. Allow coating to cure a minimum of 12 hours regardless of temperature or amount used before applying subsequent top coats.

### **Sikalastic 735 AL and 736 AL Lo-VOC top coats**

Thoroughly mix using a mechanical mixer and Jiffy paddle at slow speeds until a homogenous mixture and color is obtained. To field tint, thoroughly mix 6 **Sikaflex 2C color packs** into 4.65 gal. pails of **Sikalastic 735 AL and 736 AL Lo-VOC tint base** using a mechanical mixer and Jiffy paddle 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) using a flat or notched squeegee and backroll using a phenolic resin core roller. 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°F and 50% RH or until tack free between coats, and a minimum of 72 hours before opening to vehicular traffic. Use white tint base for lighter colors, and neutral tint base for darker colors.

### **Sikalastic 715 Textured Top Coat**

Thoroughly mix for 3 minutes using a mechanical mixer (Jiffy) at slow speed until a homogenous mixture and uniform color is obtained. Make sure to scrape the solids and the aggregate from the bottom and sides of the pail. The aggregate should be evenly diffused in the resin. Use care not to allow the entrapment of air into the mixture. Wear coat application : Apply at the recommended coverage rate 20 mils wet (58 sf/gal) using a 1/8" or 3/16" notched squeegee or trowel, and backroll using nap roller 3/8" to uniformly backroll prior to applying topcoat. It should be backrolled two times, one perpendicular to the other. Top coat application : Apply at the recommended coverage rate 20 mils wet (58 sf/gal) using a 1/8" or 3/16" notched squeegee or trowel, and backroll using nap roller 3/8" to uniformly backroll . The Top coat should be backrolled two times, one perpendicular to the other. 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 715 Lo-VOC Textured**

Thoroughly mix Sikalastic®-715 LoVOC Textured for 3 minutes using a mechanical mixer (Jiffy) at slow speed until a homogenous mixture and uniform color is obtained. Make sure to scrape the solids and the aggregate from the bottom and sides of the pail. The aggregate should be evenly diffused in the resin. Use care not to allow the entrapment of air into the mixture. Wear coat application: Apply at the recommended coverage rate 18 mils wet (60 sf/gal) using a 1/8" or 3/16" notched squeegee or trowel, and backroll using nap roller 3/8" to uniformly backroll prior to applying topcoat. It should be backrolled two times, one perpendicular to the other. Top coat application : Apply at the recommended coverage rate 18 mils wet (60 sf/gal) using a 1/8" or 3/16" notched squeegee or trowel, and backroll using nap roller 3/8" to uniformly backroll. The Top coat should be backrolled two times, one perpendicular to the other. Allow coating to cure a minimum of 16 hours at 70°F and 50% RH or until tack free before top coating. Use optional Sikalastic 715 Top Lo-VOC Booster to accelerate cure. Add a maximum of 1 quart to 4.75 gallons (or 1:19 ratio) and only to material that will applied within 2-3 hours. Allow coating to cure a minimum of 12 hours regardless of temperature or amount used before applying subsequent top coats.

### **Sikalastic 736 Textured**

Thoroughly mix coating using a mechanical mixer (Jiffy) at slow speed until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Wear coat application : Apply at the recommended coverage rate 18 mils wet (62 sf/gal ) using a 1/8" notched squeegee or trowel, and backroll using nap roller 1/4" or 3/8" to uniformly backroll prior to applying topcoat. It should be backrolled in every direction to create even texture. Do not dip and roll this product from pail. Top coat application : Apply at the recommended coverage rate 18 mils wet (62 sf/gal ) using 1/8" notched squeegee or trowel, and backroll using nap roller 1/4" or 3/8" to uniformly backroll . The Top coat should be backrolled in multiple directions to create even texture . Do not dip and roll this product from pail. 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. Use white tint base for lighter colors, and neutral tint base for darker colors.

### **Sikalastic 700 ACL accelerator**

Sikalastic 700 ACL may be added to Sikalastic 710 Base, 715 Top, 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 be applied within 2-3 hours. Allow coating to cure a minimum of 12 hours regardless of temperature or amount used before applying subsequent top coats. Use of accelerator in warm weather to speed cure time in order to recoat the same day is not recommended, as there is the potential for blistering and improper cure.

## **10.2 Two Component Products**

### **Sikalastic 720 Base**

Premix mix Part A and Part B material using a mechanical mixer and Jiffy paddle 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 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 or until tack free before top coating.

### **Sikalastic 720 SG Base**

Premix mix Part A and Part B material using a mechanical mixer and Jiffy paddle 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 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 or until tack free before top coating.

### **Sikalastic 745 AL**

Premix Part A using a mechanical mixer and Jiffy paddle 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. 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 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.

### **Sikalastic 748 PA**

Premix Part A and Part B before combining. Add equal amounts of Part B to Part A while mixing using a mechanical mixer and Jiffy paddle 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.

### **Sikalastic 390 Base**

Premix mix Part A and Part B material using a mechanical mixer and Jiffy paddle 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 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 or until tack free before top coating.

### **Sikalastic 390 NP**

Apply at the recommended coverage rate using a 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 6 hours at 70 °F and 50 % RH or until tack free before top coating. Allow coating to cure for a minimum of 36 hours before installing separate concrete pavement or tile wear course.

### **Sikalastic 391 Intermediate/Top**

Premix Part A using a mechanical mixer and Jiffy paddle 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. 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 8-10 hours at 70°F and 50% RH or until tack free between coats, and a minimum of 48 hours before opening to vehicular traffic.

### **Sikalastic 395 Top**

Premix Part A using a mechanical mixer and Jiffy paddle 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. 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 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.

### **Sikalastic 745 Textured**

Thoroughly premix Part A using a mechanical mixer (Jiffy) at slow speed to obtain uniform color and mixture, making sure to scrape the solids and the aggregate from the bottom and sides of the pail. The aggregate should be evenly diffused in the resin. 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. Wear coat application : Apply at the recommended coverage rate 16 mils wet (70 sf/gal) using a 1/8" or 3/16" notched squeegee or trowel, and backroll using nap roller 3/8" to uniformly backroll prior to applying topcoat. It should be backrolled two times, one perpendicular to the other. Top coat application : Apply at the recommended coverage rate 16 mils wet (70 sf/gal) using a "1/8" or 3/16" notched squeegee or trowel, and backroll using nap roller 3/8" to uniformly backroll. The Top coat should be backrolled two times, one perpendicular to the other. Allow coating to cure a minimum of 4 hours at 70 °F and 50 % R.H.; coating must be tack free before overcoating. Allow coating to cure for a minimum of 36 hours before opening to vehicular traffic.

### Sikalastic 395 Textured

Premix Part A and Part C components using a low speed (400–600 rpm) mechanical mixer and Jiffy Paddle at slow speed to obtain uniform color, making sure to scrape the solids and the aggregate from the bottom and sides of the pail. The aggregate should be evenly diffused in the resin. Pour part B into Part A+ C 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. Wear coat application : Apply at the recommended coverage rate 16 mils wet (70 sf/gal) using a 1/8”–3/16” notched squeegee or trowel, and backroll using nap roller 3/8” to uniformly backroll prior to applying topcoat. It should be backrolled two times, one perpendicular to the other. Top coat application : Apply at the recommended coverage rate 16 mils wet (70 sf/gal) using a 1/8”–3/16” notched squeegee or trowel, and backroll using nap roller 3/8” to uniformly backroll. The Top coat should be backrolled two times, one perpendicular to the other. Allow coating to cure a minimum of 4 hours at 70 °F and 50 % R.H.; coating must be tack free before overcoating. Allow coating to cure for a minimum of 36 hours before opening to vehicular traffic.

### Sikadur 22 Lo-Mod

Premix Part A using a mechanical mixer and Jiffy paddle 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) with a notched squeegee – DO NOT backroll. Apply aggregate evenly distributed at the appropriate rate immediately into the wet coating, either seeded or fully broadcasted (see System Guide). Allow coating to cure a minimum of 6 hours at 70°F and 50% RH or until tack free between coats or before top coating, and a minimum of 24 hours before opening to vehicular traffic.

With any of the above two component products do not turn pails upside down and let drain after placement or scrape down sides after mixing to capture remaining material, as there is risk of improperly mixed material and uncured spots within the membrane.

Thinning of any of the one or two component products with solvents is not necessary for proper application and is not recommended.

## 11.0 Recoat Windows/Preparation

For best results apply next coat as soon as preceding coat is tack free and within the recoat window. Keep area clean and do not expose to rain or potential contamination between coats.

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.

### 11.1 Primers

Product	Recoat Window	Required Surface Preparation After Recoat Window Is Exceeded
Sikalastic Primer	Tack-free to 72 hrs.	Heavily abrade and reprime
Sikalastic FTP	Tack-free to 48 hrs.	Heavily abrade and reprime
Sikalastic FTP Lo-VOC	Tack-free to 24 hrs.	Heavily abrade and reprime
Sikalastic PF Lo-VOC	Tack-free to 24 hrs.	Heavily abrade and reprime
Sikalastic MT	Tack-free to 48 hrs.	Heavily abrade and reprime

## 11.2 Base Coats

Product	Recoat Window	Required Surface Preparation After Recoat Window Is Exceeded
Sikalastic 710	Tack-free to 72 hrs.	Clean, solvent wipe and Sikalastic Recoat Primer or Sikalastic Primer
Sikalastic 710 Lo-VOC	Tack-free to 48 hrs.	Clean, solvent wipe and Sikalastic Recoat Primer or Sikalastic Primer
Sikalastic 710 Lo-VOC with 710 Lo-VOC Booster	6 - 24 hrs.	Clean, solvent wipe and Sikalastic Recoat Primer or Sikalastic Primer
Sikalastic 720	Tack-free to 24 hrs.	Clean, solvent wipe and Sikalastic Recoat Primer or Sikalastic Primer
Sikalastic 390	Tack-free to 48 hrs.	Clean, solvent wipe and Sikalastic Recoat Primer or Sikalastic Primer

## 11.3 Intermediate and Top Coats

Product	Recoat Window	Required Surface Preparation After Recoat Window Is Exceeded
Sikalastic 715	Tack-free to 72 hrs.	Clean, solvent wipe and Sikalastic Recoat Primer or Sikalastic Primer
Sikalastic 715 Textured	Tack-free to 72 hrs.	Clean, solvent wipe and Sikalastic Recoat Primer or Sikalastic Primer
Sikalastic 715 Lo-VOC	Tack-free to 48 hrs.	Clean, solvent wipe and Sikalastic Recoat Primer or Sikalastic Primer
Sikalastic 715 Lo-VOC Textured	Tack-free to 48 hrs.	Clean, solvent wipe and Sikalastic Recoat Primer or Sikalastic Primer
Sikalastic 715 Lo-VOC with 715 Lo-VOC Booster	6 - 24 hrs.	Clean, solvent wipe and Sikalastic Recoat Primer or Sikalastic Primer
Sikalastic 735 AL	48 hrs.	Clean, solvent wipe and Sikalastic Recoat Primer or Sikalastic Primer
Sikalastic 735 AL with 700 ACL Accelerator	24 hrs.	Clean, solvent wipe and Sikalastic Recoat Primer or Sikalastic Primer
Sikalastic 736 AL Lo-VOC	48 hrs.	Clean, solvent wipe and Sikalastic Recoat Primer or Sikalastic Primer
Sikalastic 736 Textured	48 hrs.	Clean, solvent wipe and Sikalastic Recoat Primer or Sikalastic Primer
Sikalastic 736 AL Lo-VOC with 700 ACL Accelerator	24 hrs.	Clean, solvent wipe and Sikalastic Recoat Primer or Sikalastic Primer
Sikalastic 745 AL	Tack-free to 24 hrs.	Clean, solvent wipe and Sikalastic Recoat Primer or Sikalastic Primer
Sikalastic 745 AL	Tack-free to 24 hrs.	Clean, solvent wipe and Sikalastic Recoat Primer or Sikalastic Primer
Sikalastic 748 PA	Tack-free to 4 hrs.	Clean, solvent wipe and Sikalastic Recoat Primer or Sikalastic Primer
Sikalastic 391	Tack-free to 24 hrs.	Clean, solvent wipe and Sikalastic Recoat Primer or Sikalastic Primer
Sikalastic 395	Tack-free to 24 hrs.	Clean, solvent wipe and Sikalastic Recoat Primer or Sikalastic Primer
Sikalastic 395	Tack-free to 24 hrs.	Clean, solvent wipe and Sikalastic Recoat Primer or Sikalastic Primer

## 11.4 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.

## 12.0 Aggregate/Flake Selection and Encapsulation

### 12.1 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 mesh for single component vehicular and heavy pedestrian traffic systems
- 16-30 mesh for two component vehicular and heavy pedestrian traffic systems
- 16-30 or 20-40 mesh for single or two component light pedestrian traffic systems
- Sika Broadcast Quartz Blends or equivalent for Decorative Quartz systems
- #3 Flynt for high friction surfaces

Quality of uniformity, shape and purity varies widely throughout the US, in some cases even from the same supplier, and care should be taken to verify suitability prior to use. The following sources are known to provide aggregates that meet the above criteria:

- Carmeuse Industrial Sands, Brady, TX or Colorado Springs, CO
- Unimim, Ottawa, MN, Junction City, GA, or Voca, TX
- Sika Corporation, Wheeling, IL (Broadcast Quartz only)

Of particular concern is to use quartz sand with minimal iron oxide/iron-containing impurities, as iron-based contaminants may cause rust stains in the finished coating system. It is highly recommended that the quartz sand supplier provide certifications that specifically list iron oxide/iron content – 0.05% maximum is suggested.

### 12.2 Flake Selection

Use virgin vinyl flakes, supplied in pre-packaged bags and free from impurities, from the following source:

- Sika Corporation, Sheboygan Falls, WI (DecoFlake only)

### 12.3 Encapsulation

Care should be taken to ensure aggregate is uniformly dispersed and well encapsulated, and bare spots that may cause a slip hazard are avoided. Poor quality aggregate, or insufficient removal of loose aggregate prior to recoating can result in premature wear of the system.

The following encapsulation techniques are recommended:

- Seed and lock, or seed and backroll for single component vehicular and heavy pedestrian traffic systems
- Seed and backroll for single component light pedestrian traffic system
- Seed and backroll for all two component traffic systems
- Broadcast to rejection for Decorative Quartz and DekoFlake systems

Seeding of aggregate means an even, light broadcast short of refusal; any loose aggregate must be removed prior to recoating. Use amount specified in System Guides and backroll aggregate where indicated.

Broadcast to rejection means full surface coverage; any loose aggregate/flakes must be removed prior to sealing. Use amount specified in System Guides. Backrolling aggregate and flakes is not recommended.

**In all cases, pre-installation mockups to verify application methods and substrate conditions as well as desired skid resistance and aesthetics are highly recommended.**

## 13.0 Use Under Tile and Pavers

### 13.1 Tile Applications

All Sikalastic 700-series traffic deck systems are suitable for use as waterproofing under ceramic, quarry, or stone tile adhered in a cementitious tile mortar adhesive when provided with a fully broadcasted or well-seeded surface.

The following mortar adhesives are recommended by their manufacturers for either interior or exterior applications:

- 254 Platinum, or 211 Powder mixed with 4237 Latex Additive, Laticrete International
- Ultraflex 3, or Kerabond T with Keralastic Latex Additive, Mapei Corporation

The use of high quality mortar adhesives will normally provide improved crack resistance, improved freeze-thaw resistance, and a reduction in efflorescence when compared to standard mortar adhesives.

In general, the use of a second base coat waterproofing membrane application is recommended, to provide 40 dry mils of waterproofing under the tile installation. A supplemental base or top coat is required to receive the aggregate broadcast/seeding. DO NOT apply aggregate directly into the waterproofing membrane.

ASTM C836, Standard Specification for High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course, requires a 60 mil min. membrane thickness.

### 13.2 Concrete Pavers and Pedestal Systems

Concrete pavers installed as roof ballast or as a functional plaza deck trafficable system must be hydraulically pressed or manufactured in some other manner so that a high compressive and flexural strength is achieved, and susceptibility to freeze-thaw damage is minimized. Concrete pavers available through Sika meet this requirement.

Typical concrete paver size is 2' x 2' x 2" in thickness, although other sizes are available.

Concrete pavers installed as part of a plaza deck assembly are typically installed on pedestal systems or into a sand bed to allow height adjustment to achieve an even finished surface.

Concrete paver systems require a project-specific, roof area-specific design that incorporates roof access locations, substrate slope, desired height of the finished concrete paver installation, aesthetic issues regarding any patterns or other finished system requirements, and the overall dimensions of the roof area/areas to receive a concrete paver system. It is the responsibility of the project design professional or contractor to determine all design-related requirements, paver count, and number/height of pedestal components as part of the submittal package and to submit this information to Sika Customer Service.

Concrete pavers must be installed in accordance with the paver manufacturer's recommendations and guidelines, and in accordance with the project specifications. Cracked, chipped, and otherwise damaged paver should not be installed.

In general, full pavers are to be installed wherever possible, with cuts and alterations to the pavers made to accommodate penetrations and perimeter edge conditions. Pavers smaller than half-sections are often not installed, and instead replaced with stone ballast.

Concrete pavers utilizing a pedestal system must be installed in a manner that fully supports each paver corner and achieves a level surface. The use of blocks of extruded polystyrene insulation as a pedestal support system is not an acceptable practice for a Sikalastic system assembly.

Concrete pavers installed in a sand bed must be installed over a layer of Sika Drainage Mat.

### **13.3 Detailing**

The installation of tile and pavers over a Sikalastic waterproofing system effectively buries horizontal-to-vertical transitions and makes maintenance/repair at these locations impractical. This condition is found at the base of walls and curbs, and at penetrations and perimeters.

It is suggested that fabric reinforcement be applied at these detail locations, as follows:

Apply 40 wet mils of Sikalastic 720 or Sikalastic 390 waterproofing coating to the vertical and horizontal surfaces for a 6" distance from the plane intersection.

Place Sikalastic 120 Fleece reinforcement in the wet coating, cutting and fitting fleece to conform to the requirements of the flashing condition. Use a 4" - 6" roller to saturate the fleece into the coating.

Immediately apply 20 wet mils of Sikalastic 720 or Sikalastic 390 waterproofing coating over the reinforcement to complete the reinforcement saturation.

Sikafloor Extender T may be added to the waterproofing coating to thicken the coating and minimize sag on vertical surfaces.

## **14.0 Line Paint**

### **14.1 Line Paint**

Line Paints are used for long line striping applications and for striping of parking lots. Waterborne and acrylic water-based paints are designed for application on Polyurathane traffic coating membranes. Surface should be clean, dry, and free from dirt. Line paints perform best when they are applied at surface temperature of 50°F and rising. Application of these products at temperatures between 45°F and 50°F may result in reduced service life. Do not apply below 45°F. Polyurathane top coat should be fully cured prior to line striping. Contact Sika Technical Services for product recommendations.

## **15.0 General Application Techniques**

### **15.1 Coverage Rates**

Coverage rates are suggested as a guide only. Applicator must determine actual coverage on site for each project to meet thickness requirements. Due to variation in surface profiles and configurations as well as job conditions, notched squeegees are tools that will only meter approximate wet mil thicknesses. As a guide only, it is recommended that wet mil gauges be used to monitor typical wet mils applied. In order to achieve published coverage rates, the applicator must monitor square foot coverage on a per gallon or pail basis.

### **15.2 Use of Squeegees**

Push squeegee instead of pulling it. Spiked shoes are required since the operator will be walking in the coating. Angling the squeegee as the operator passes back and forth across the deck in a “snowplow” fashion is the most efficient manner to spread material uniformly.

Squeegee wear depends on roughness of concrete surface. Inspect squeegees frequently and clean or change often to prevent insufficient application of material. Angle squeegee blade in holder so that it is pushed across the deck in a vertical position. Tape squeegee heads before using to facilitate removal after excess material has cured on head.

### **15.3 Backrolling**

Backroll each coat to help ensure even application. Backroll prior to seeding or broadcasting aggregate; where indicated in System Guide backroll a second time after seeding with aggregate. Use 1/2 or 3/8 inch nap roller for 710 Base, and 3/8 inch nap for 720 Base and all top coats. Use phenolic resin/solvent resistant covers, and change covers and holders frequently so they roll freely. Prior to use roller should be saturated with liquid coating. A dry roller will pick up material causing a thin spot in the coating.

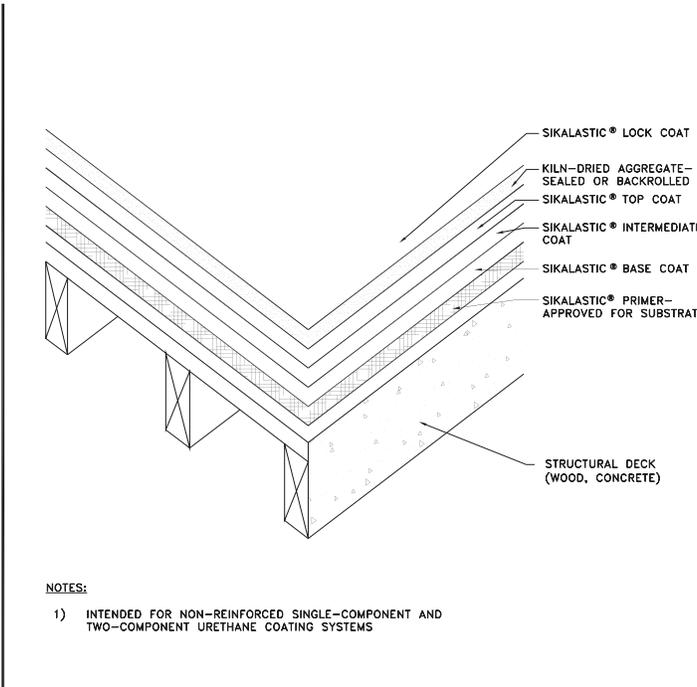
### **15.4 Color Consistency**

Make sure materials from the same batch are used where normal, slight color variations due to lot change may be objectionable. Variations in surface texture may also be misinterpreted as color variations in the coating. These can be caused by variations in type, quantity and distribution of aggregate as well as roller marks caused by variations in backrolling techniques.

### **15.5 Crew Size**

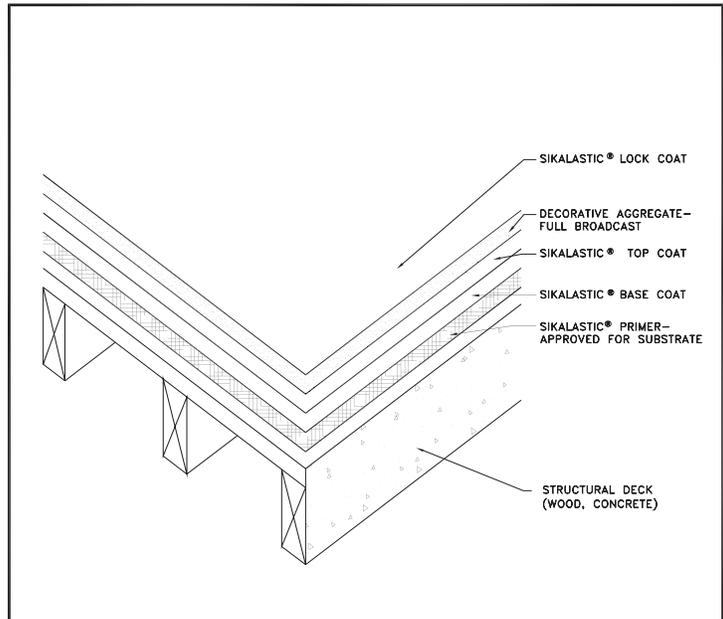
Products are generally designed for squeegee application after pouring on the deck as opposed to roller application out of the pail. This is especially the case with Sikalastic 720 Base and 745 AL, which have limited pot life (10-15 and 20-30 minutes respectively). Adequate crew size (generally a minimum of 6) to accomplish timely and accurate mixing, placement, squeegeeing, backrolling and placement of aggregate is critical.

# 16.0 Assembly and Flashing Details



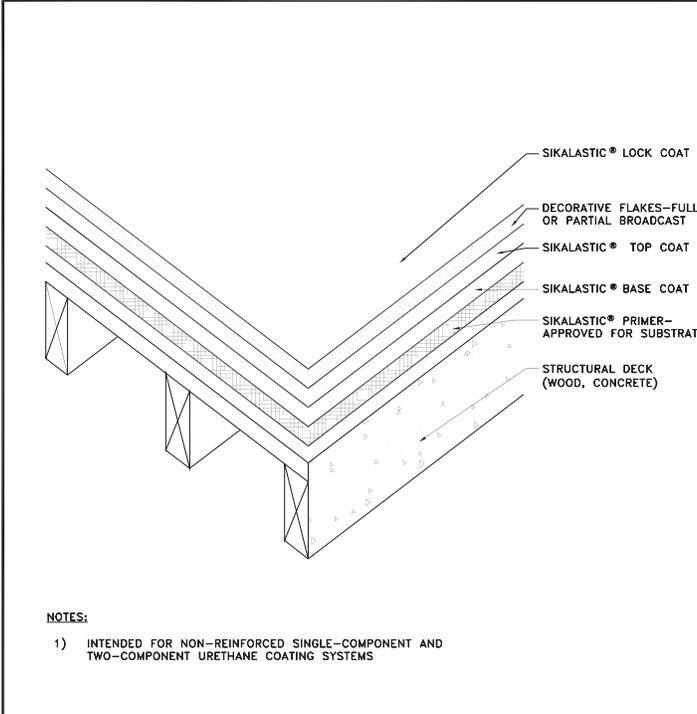
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	DETAIL TITLE: <b>WATERPROOFING ASSEMBLY WITH UTILITY FINISH</b>				
1-800-933-SIKA (7452) www.sikausa.com	SCALE: N.T.S.	DATE: 10/13	FILE NO.: LAM	DRW. NO.: WP.1.1	

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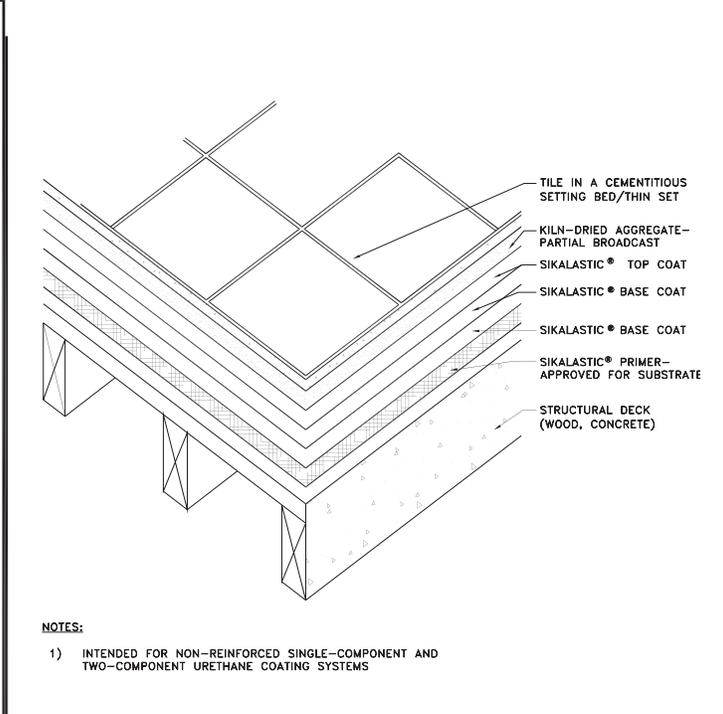
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	DETAIL TITLE: <b>WATERPROOFING ASSEMBLY WITH AGGREGATE FINISH</b>				
1-800-933-SIKA (7452) www.sikausa.com	SCALE: N.T.S.	DATE: 10/13	FILE NO.: LAM	DRW. NO.: WP.1.13	

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	DETAIL TITLE: <b>WATERPROOFING ASSEMBLY WITH FLAKE FINISH</b>				
1-800-933-SIKA (7452) www.sikausa.com	SCALE: N.T.S.	DATE: 10/13	FILE NO.: LAM	DRW. NO.: WP.1.14	

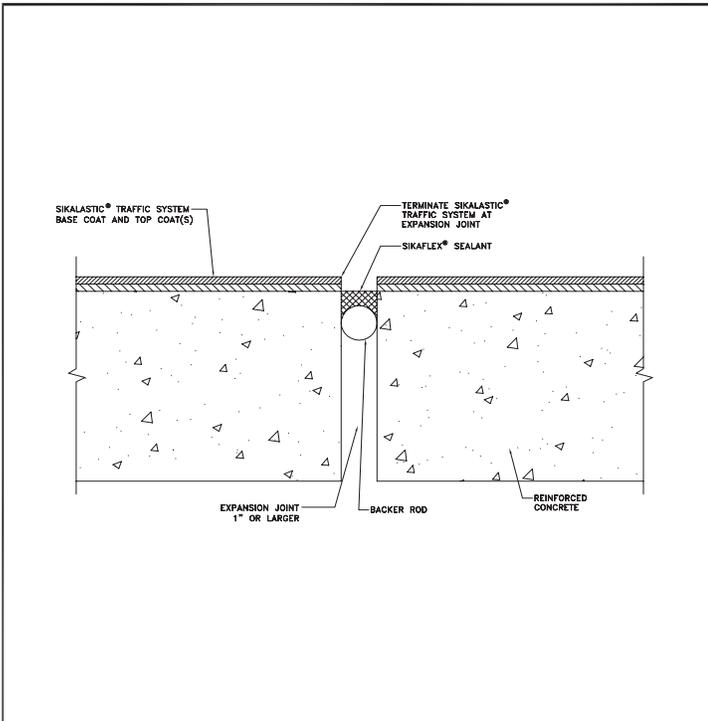
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	DETAIL TITLE: <b>WATERPROOFING ASSEMBLY WITH TILE IN A SETTING BED</b>				
1-800-933-SIKA (7452) www.sikausa.com	SCALE: N.T.S.	DATE: 10/13	FILE NO.: LAM	DRW. NO.: WP.1.1	

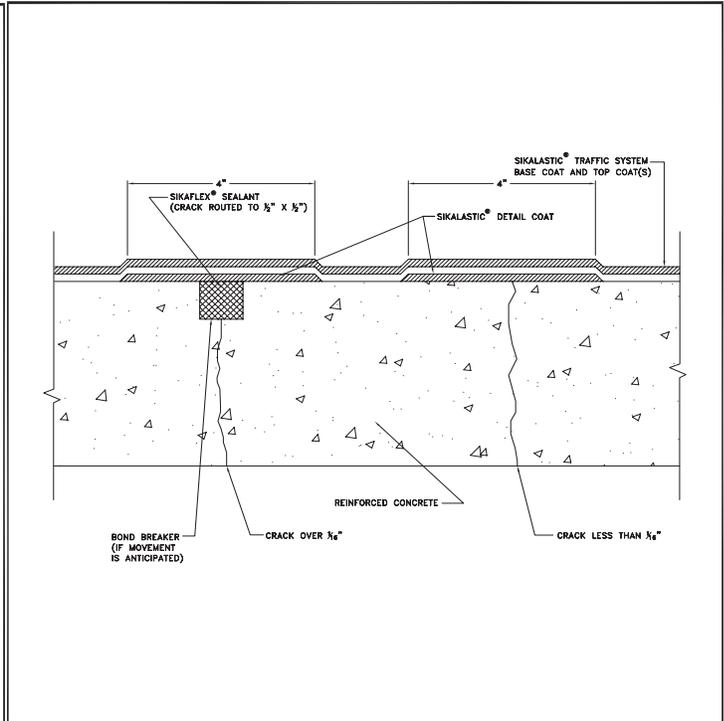
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# Assembly and Flashing Details



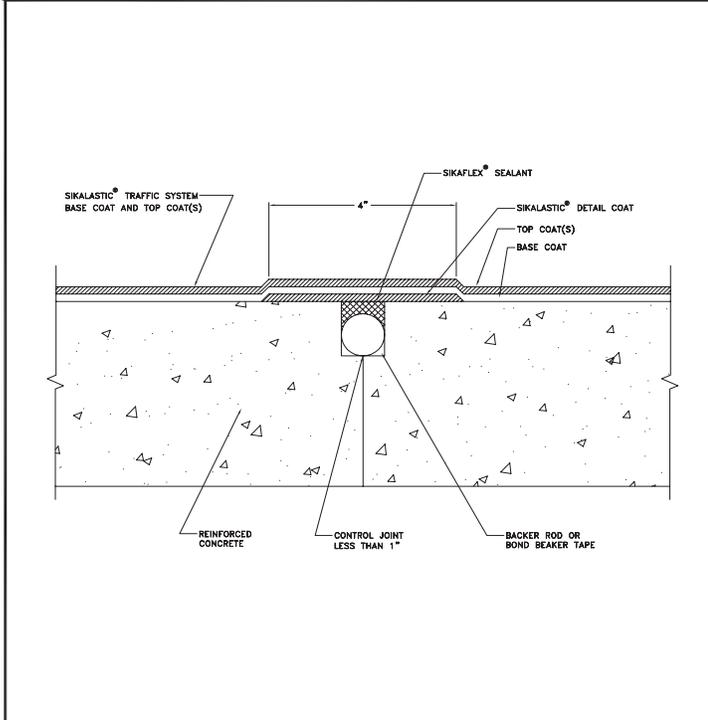
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	DETAIL TITLE: <b>EXPANSION JOINT DETAIL</b>					
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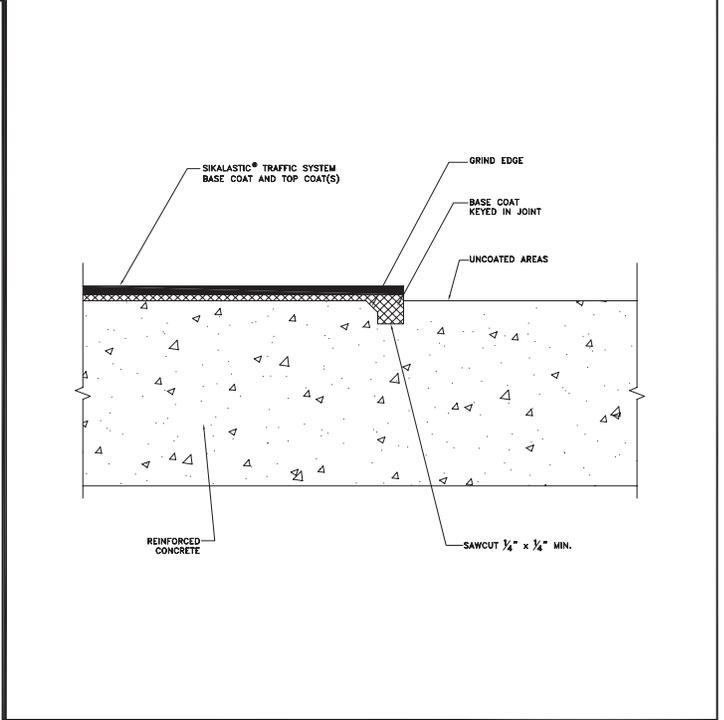
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	DETAIL TITLE: <b>CRACK DETAIL</b>					
	SCALE: N.T.S.	DATE: 9/13	FILE NO.:	DRW. NO.:	TR-2	

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	DETAIL TITLE: <b>CONTROL JOINT DETAIL</b>					
	SCALE: N.T.S.	DATE: 9/13	FILE NO.:	DRW. NO.:	TR-1	

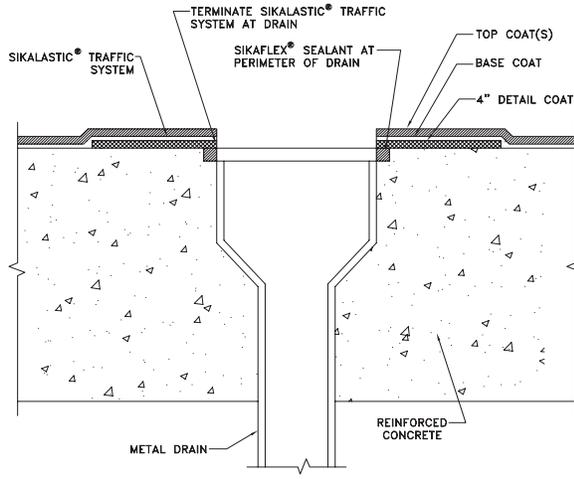
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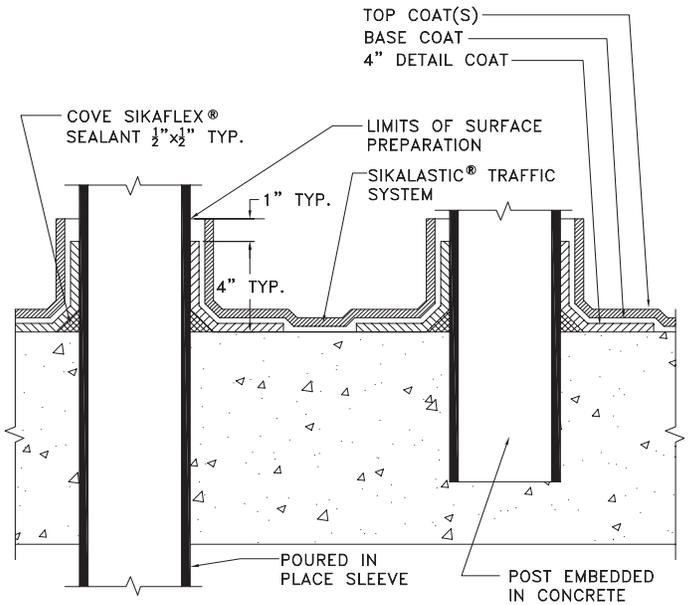
 1-800-933-SIKA (7452) WWW.SIKAUSA.COM	JOB NAME:					
	DETAIL TITLE: <b>TERMINATION DETAIL</b>					
	SCALE: N.T.S.	DATE: 9/13	FILE NO.:	DRW. NO.:	TR-12	

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# Assembly and Flashing Details



NOTE:  
PROVIDE 4" DETAIL COAT AT DRAIN PERIMETER.



NOTE:  
PROVIDE 4" DETAIL COAT AT COVE SEALANT.



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JOB NAME:					
DETAIL TITLE:	DRAIN DETAIL				
SCALE:	N.T.S.	DATE:	9/13	FILE NO.:	DRW. NO.:
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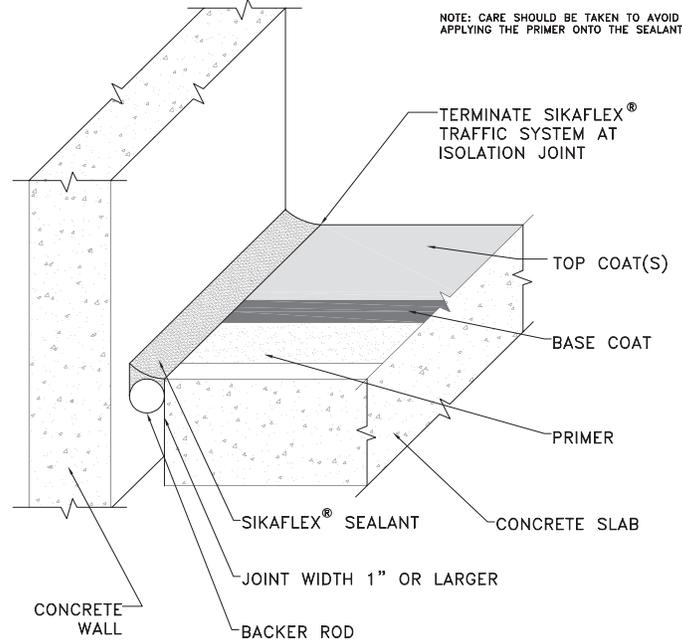
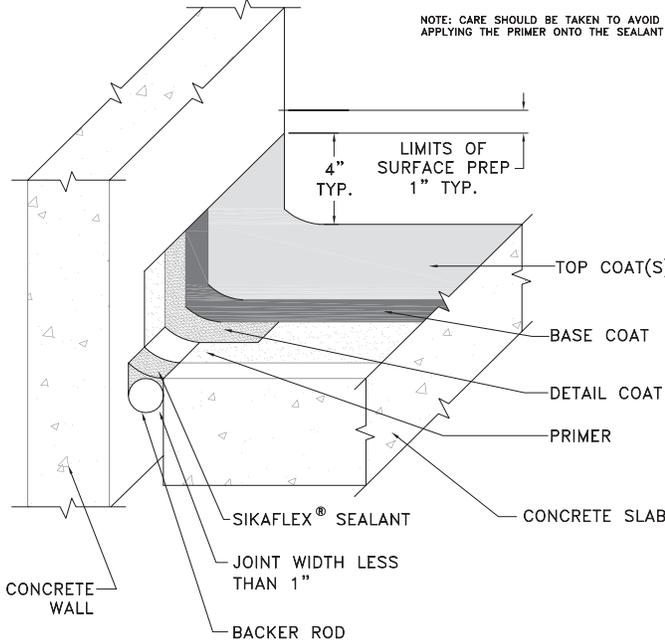


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JOB NAME:					
DETAIL TITLE:	VERTICAL PROJECTION DETAIL				
SCALE:	N.T.S.	DATE:	9/13	FILE NO.:	DRW. NO.:
					TR-7

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JOB NAME:					
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SCALE:	N.T.S.	DATE:	9/13	FILE NO.:	DRW. NO.:
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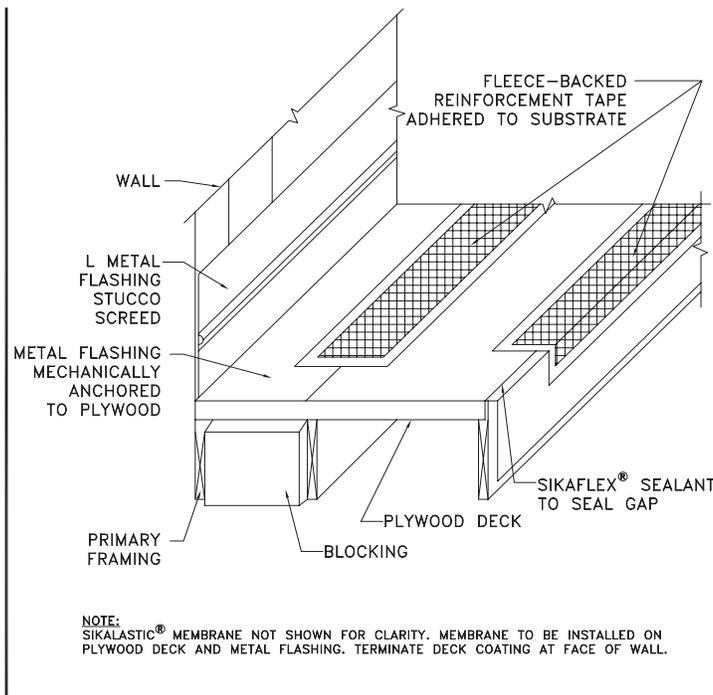
1-800-933-SIKA (7452)  
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JOB NAME:					
DETAIL TITLE:	WALL/SLAB ISOLATION JOINT DETAIL TYPE 2				
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					TR-10

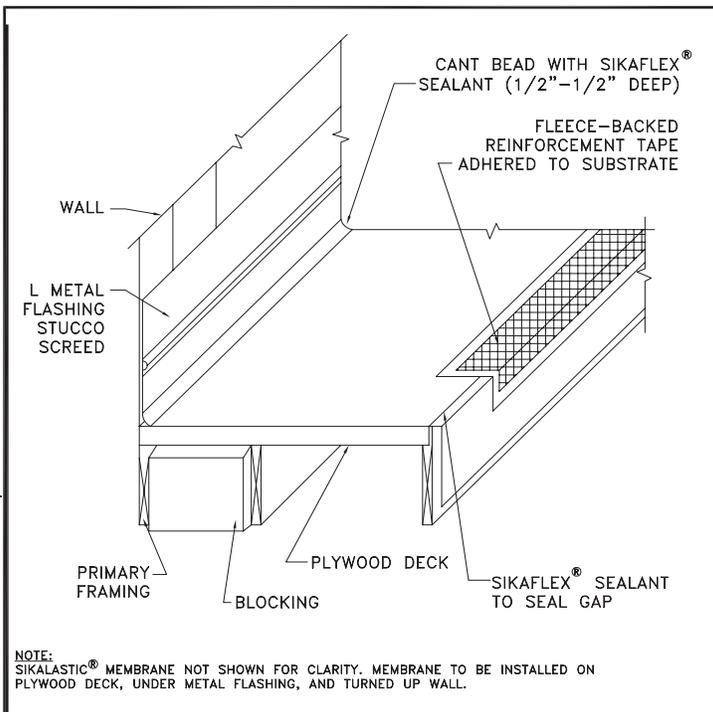
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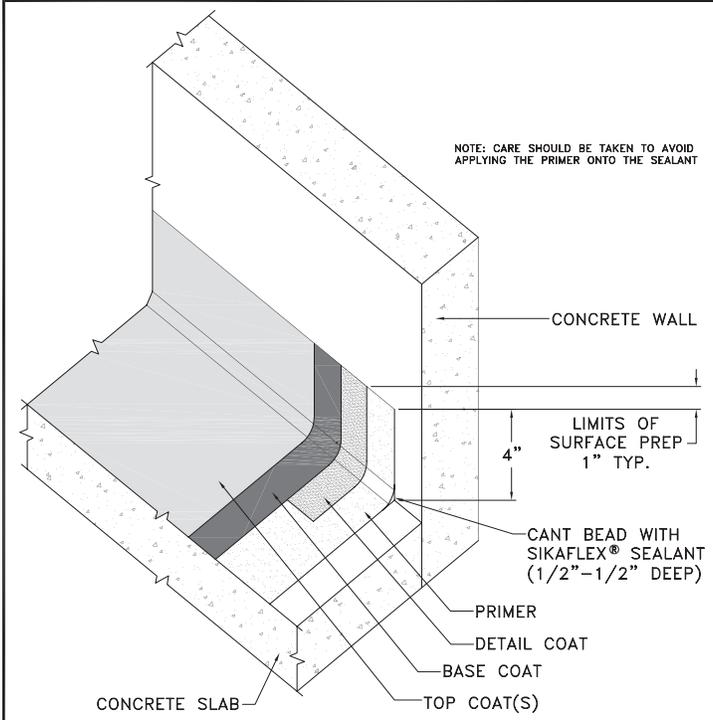
# Assembly and Flashing Details



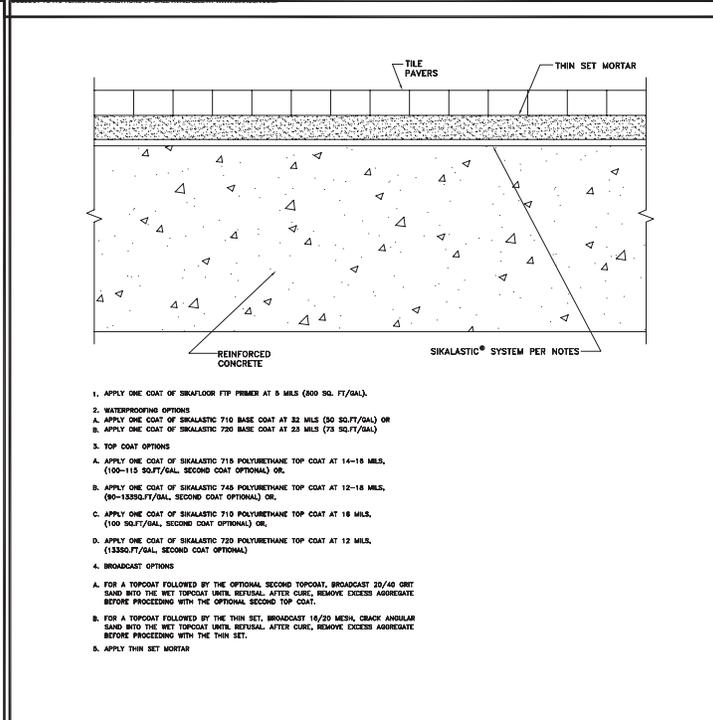
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	DETAIL TITLE: PLYWOOD DECK FLASHING DETAIL TYPE 1			
SCALE: N.T.S.	DATE: 9/13	FILE NO.:	DRW. NO.: TR-4	



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	DETAIL TITLE: WALL/SLAB JOINT DETAIL			
SCALE: N.T.S.	DATE: 9/13	FILE NO.:	DRW. NO.: TR-8	



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## 17.0 Cautions and Troubleshooting

### 17.1 Moisture and Temperature

Common problems due to moisture or temperature extremes include blisters, pinholes and inadequate adhesion. Observe the following published 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 substrate for standard applications: 4% by weight.
- Maximum moisture content of substrate for applications utilizing a moisture-tolerant primer: 6% by weight.
- Minimum ambient and substrate temperature during application and curing of material is 40°F (4°C); maximum is 95°F (35°C).
- 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.
- 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.
- Do not subject to continuous immersion.

### 17.2 Substrates

- When applying over existing coatings, compatibility and adhesion testing is recommended.
- On grade applications, asphalt coatings or pavement, or where chained or studded tires may be used should not be coated with Sikalastic Traffic Systems.
- Unvented metal pan/concrete composite decks, lightweight structural concrete decks, and split/sandwich slab decks with encapsulated membrane are applications that require additional evaluation to evaluate moisture content and substrate integrity. These applications require the use of a moisture-tolerant primer such as Sikalastic MT Primer prior to being coated with Sikalastic Traffic Systems.

### 17.3 Common Problems and Causes

#### Blisters

- Moisture in deck or on preceding coat
- Improper mixing
- Coating applied too thick
- Improper curing between coats

#### Pinholes

- Concrete too porous
- Air and/or surface temperature too high
- Moisture in deck
- Material applied while deck is outgassing
- Inadequate primer
- Coating applied too thick
- Improper mixing

- Coating not backrolled
- Poor Adhesion to Concrete
- Improper surface preparation
- Hard trowel finish (surface too smooth)
- Contamination by moisture, dirt, impregnations, etc.
- Incompatible curing compounds or admixtures
- Excessive primer or lack of primer
- High concentrations of exposed aggregate

#### **Poor Intercoat Adhesion**

- Recoat window missed
- Preceding coat dirty or damp
- Chemical contamination

### **17.4 Pinhole and Blister Correction**

Apply additional base coat with flat squeegee to fill in pinholes when tack free and after slab temperature begins decreasing and offgassing stops. Blisters may have trapped solvents or moisture. Cut out and allow surface to dry and coating to become tack free prior to recoating.

## 18.0 Maintenance and Repair

### 18.1 General Maintenance

One of the elements important to maintaining the Sikalastic Traffic System in a warrantable condition is a comprehensive program of periodic maintenance to be established and followed by the owner of the structure/building.

Maintenance procedures include, but are not limited to:

- Periodic inspections by owner or owner's representative
- Cleaning on a routine basis
- Snow and ice removal (where applicable)
- Repairs to the structure
- Repairs to the Sikalastic Traffic System

### 18.2 Inspections

Periodic inspections will provide a basis for the proper maintenance work required assuring the longevity of the Sikalastic Traffic System.

**Monthly** – Make a physical inspection to determine if there are any areas of physical damage to the System. Document the date, time and results of these inspections.

**Semi-Annually** – Make a thorough physical inspection including photographing and/or videotaping the System. Such inspections include, but are not limited to:

1. Inspect the sealant in the joints for proper adhesion. Also, determine if there is any cohesive failure or physical damage to the sealant. Where possible, inspect the underside of the joints for evidence of leaks.
2. Inspect the areas where beams are resting on columns for evidence of stress, cracking or excessive movement. Where possible, inspect the entire structure from the underside of deck for cracks, spalls, corrosion damage and other defects.
3. Inspect drains or scuppers to ensure there is nothing clogging or blocking them, to avoid ponding water on the deck.
4. Inspect areas at the juncture of the deck and vertical projections, e.g. parapet walls, planters, building walls, curbs, parking bumpers, etc., to determine if there has been any breach to the Sikalastic Traffic System.
5. Inspect the Sikalastic Traffic System for cracks that may have been caused by any structural cracks or movement in the substrate.
6. Inspect areas which are subject to high abrasion and wear such as:
  - a. Vehicular traffic areas: Turn radii, entrance and exit ramps and other start/stop areas for excessive wear or loss of aggregate in the Sikalastic Traffic System.
  - b. Pedestrian areas: Top of stair landings, stair treads, doorways, and narrow walkways through areas, pay stations, etc.
  - c. Other areas: Inspect the entire surface for evidence of excessive wear.

### 18.3 Cleaning

The use and location of the deck will cause the cleaning frequency to vary. Recommendations for cleaning are as follows:

**Weekly** – Sweep or vacuum the deck to remove sharp objects, such as gravel, glass and metal particles from the coating surface. Hand sweeping and/or the use of industrial floor sweepers with soft bristle

brushes or litter vacuums is recommended.

**Monthly** – Thoroughly clean the deck to remove dirt, debris, oil and grease drippings, car fluids, de-icing salts, tire marks, etc.

**Cleaning may be accomplished by:**

1. Power scrubbing with a low sudsing, biodegradable, solvent-free and acid free cleaner and soft bristle brushes only. This method requires thorough rinsing with clean water to avoid slippery when wet conditions and residue. Do not use wire brushes.
2. Power washing at less than 1,000 psi
3. Avoid the use of solvents for health, safety and environmental reasons. Solvents can also damage the System if allowed to remain ponded on the membrane.

## 18.4 Rust and Oil Stain Removal

Rust stains and oil stains are two common staining problems with traffic deck coatings, the complete removal of which can sometimes be difficult. It is recommended to clean an inconspicuous area to confirm the effectiveness of the cleaner selected and to ensure that the traffic deck coating is not damaged during cleaning operations.

**Removal of rust stains:**

1. Select a cleaner specifically recommended for rust stain removal from masonry surfaces.
2. Liberally apply cleaner with brush or spray to the dry, affected area.
3. Avoid cleaners that contain aggressive acids or caustic compounds, as these products can damage the coating. A mild acid content such as oxalic acid is generally required to chemically break down the rust.
4. Allow cleaner to dwell on the stained area for 15 minutes or as recommended by the cleaner manufacturer.
5. If necessary, lightly scrub the surface with a soft bristle brush.
6. Power wash at less than 1,000 psi to remove loosened rust and rinse thoroughly.
7. Repeat as required.

**Removal of oil stains:**

1. Select a cleaner specifically recommended for oil stain removal from masonry surfaces.
2. Liberally apply cleaner with brush or spray to the dry, affected area.
3. Avoid cleaners that contain aggressive acids or caustic compounds, as these products can damage the coating. A mild alkaline content is generally required to dissolve and emulsify the oil and grease so that it can be rinsed away.
4. Allow cleaner to dwell on the stained area for 2-3 hours or as recommended by the cleaner manufacturer.
5. In general, scrubbing is ineffective.
6. Power wash at less than 1,000 psi to remove loosened oil and rinse thoroughly. Hot water is most effective.
7. Repeat as required.

## 18.5 Snow Removal and Ice Control

Piled snow can present the possibility of significantly overloading a deck beyond its designed load capacity. This overloading may cause structural cracks to develop and/or damage the underlying structure. The cracks can reflect through the System causing serious damage. Immediate removal of ice and snow is critical.

If possible snow removal should be accomplished through the use of brooms and blowers. Plowing of snow should only be performed with snow removal equipment which is equipped with adjustable, rubber, snowplow blades. These rubber blades can be adjusted to remove snow, and slush from the surface. The rubber blades will protect the Sikalastic Traffic System from damage such as cuts and gouges. The use of heavy snow removal equipment, including metal blades on snowplows, must be avoided to prevent damage to the Sikalastic Traffic System. Damage to the System caused by metal blades will render the warranty null and void.

Ice should be treated and removed with chemical deicing materials only. All common ice melt materials – Sodium Chloride, Potassium Chloride, Magnesium Chloride, and Potassium Chloride – are suitable for use with Sikalastic Traffic Systems.

## **18.6 Repair to the Structure**

All structural repairs must be made at the direction of a licensed structural engineer. If any structural repairs affect the Sikalastic Traffic System, the System should be repaired as well with prior notification to Sika.

## **18.7 Repair to the Traffic System**

General repairs under warranty require prior notification to Sika. Minor repairs, however, may be made by the owner's maintenance personnel, with the prior approval of Sika.

### **Physical Damage to the Traffic System**

1. Remove all damaged Sikalastic traffic coating materials back to well bonded material or the substrate. For exposed substrate, prepare as indicated in the current applicable Sikalastic System Product Data Sheet (PDS). Abrade the exposed, well-bonded Sikalastic Traffic System surrounding the area to be repaired and then thoroughly clean with a clean cloth saturated with solvent (high quality Xylene\* recommended). Allow the solvent to evaporate completely.
2. Install the appropriate Sikalastic Traffic System to the repair area to the specified thickness for each coat as indicated in the current applicable PDS. Extend each coat onto the existing coating with a 2 inch minimum overlap, feathering the terminating edge of the coating.
3. Allow the repaired area to cure as indicated on the current applicable PDS before opening to traffic.

### **Areas of Excessive Wear Having The Base Coat Intact**

1. Sandblast, power wash or abrade the worn area and/or exposed base coat. If power washing is employed, allow the area to completely dry before proceeding.
2. Solvent wipe the area and allow the solvent to completely evaporate.
3. In the areas of excessive wear, apply the base coat at the required thickness to restore it to the original, specified thickness as indicated in the current applicable PDS.
4. Install the remaining coats of the appropriate Sikalastic Traffic System to the repair area to the specified thickness as indicated in the current PDS. Extend each coat onto the existing coating with a 2 inch minimum overlap, feathering the terminating edge of the coating.
5. Allow the repaired area to cure as indicated in the current applicable PDS before opening to traffic.

## **18.8 Resurfacing**

To maintain the aesthetics and wearing properties of the Sikalastic Traffic System, it is recommended that the topcoat be renewed as needed based upon maintenance inspections. Consult Sika and Surface Preparation - Existing Coatings in this Manual for additional information.

\* Handling and use of all solvents must be done in accordance with the manufacturer's warnings and instructions for use.

# 19.0 Sikalastic® Coatings

## DEW POINT OF MOIST AIR CHART



Dew Point is the temperature at which moisture will condense on a surface. In relation to dew point, surface temperature is especially important. Below are some common rules to follow when applying a Sikalastic coating.

- If the surface temperature is at or below the dew point, the surface will be noticeably wet/damp and generally should not be coated. Problems can occur when the surface temperature is near, but not quite at the dew point.
- If the coating is applied when the surface temperature is near the dew point, the evaporation of the solvent can depress the temperature below the dew point and allow moisture to condense on the fresh coating. There is a slight temperature depression when liquid evaporates. This may cause problems between the adhesion of the coating to the substrate.
- **No coatings should be applied unless the surface temperature is a minimum of 5°F above this point. This temperature must be maintained during curing as well.**

Below the chart illustrates how to determine your dew point based on the Ambient air temperature and Relative Humidity.

### Ambient Air Temperature

	20°F	30°F	40°F	50°F	60°F	70°F	80°F	90°F	100°F	110°F	120°F
90%	18°F	28°F	37°F	47°F	57°F	67°F	77°F	87°F	97°F	107°F	117°F
85%	17°F	26°F	36°F	45°F	55°F	65°F	75°F	84°F	95°F	104°F	113°F
80%	16°F	25°F	34°F	44°F	54°F	63°F	73°F	82°F	93°F	102°F	110°F
75%	15°F	24°F	33°F	42°F	52°F	62°F	71°F	80°F	91°F	100°F	106°F
70%	13°F	22°F	31°F	40°F	50°F	60°F	68°F	78°F	88°F	96°F	105°F
65%	12°F	20°F	29°F	36°F	47°F	57°F	66°F	76°F	85°F	93°F	103°F
60%	11°F	19°F	27°F	36°F	45°F	55°F	64°F	73°F	83°F	92°F	101°F
55%	9°F	17°F	25°F	34°F	43°F	53°F	61°F	70°F	80°F	89°F	96°F
50%	6°F	15°F	23°F	31°F	40°F	50°F	59°F	67°F	77°F	86°F	94°F
45%	4°F	13°F	21°F	29°F	37°F	47°F	58°F	64°F	73°F	82°F	91°F
40%	1°F	11°F	18°F	26°F	35°F	43°F	52°F	61°F	69°F	78°F	87°F
35%	-2°F	8°F	16°F	23°F	31°F	40°F	48°F	57°F	65°F	74°F	83°F
30%	-6°F	4°F	13°F	20°F	28°F	36°F	44°F	52°F	61°F	69°F	77°F

**Example:** If the ambient temperature is 70°F and the Relative humidity (RH) is 65%, the dew point will be 57°F. No coatings should be applied in these climates unless the surface temperature is at a minimum of 62°F (57°F+5°F=62°F).

# Field Report

## Project Information

Project	
Location	
Responsible Person/Applicator	
Date	
Time	

## Substrate

Description:		CSP:	Area:
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## Climate

Date:	Relative Air Humidity:	Air Temperature	Dew Point	Substrate Temperature	Substrate Humidity WME
	%	°F	°F	°F	%
	%	°F	°F	°F	%
	%	°F	°F	°F	%
	%	°F	°F	°F	%

## Weather Conditions

--

## Batch No:

Product:	Batch No:

## System Build Up:

Product:	Coverage	Wet Film Thickness
	ft <sup>2</sup> /gal	mil





# SIKA FULL RANGE SOLUTIONS FOR CONSTRUCTION:



**WATERPROOFING**



**CONCRETE**



**REFURBISHMENT**



**SEALING AND BONDING**



**FLOORING**



**ROOFING**

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The sale of all Sika products are subject to the following Limited Warranty:

#### **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 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.**

Our most current General Sales Conditions shall apply. Please consult the Product Data Sheets prior to any use and processing.



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