BID NO: 750-00-22-050 **COMMODITY: BRIDGE DECK PRESERVATION PRODUCTS** BUYER: JAMIE BOSTYAN

OPENING: MARCH 3, 2022; 2:00 p.m. Central Time

Deck Surface Treatment - Silane 4 Hour Dry Time			Valence Protective Coatings
(Unit Price is F.O.B. Destination Any NDDOT District Location Delivered)			Mendota Heights, MN
Item No.	**QTY**	**Detailed Specifications**	**Unit Price**
1a	1-2 pails	5-Gallon Pails	$ 190.40
	3-5 pails	5-Gallon Pails	$ 190.40
	6-11 pails	5-Gallon Pails	$ 190.40
	12 or more pails	5-Gallon Pails	$ 187.00
1b	1-4 drums	55-Gallon Drums	$ 1,909.60
	5 or more drums	55-Gallon Drums	$ 1,909.60
1c	1 tote	250-Gallon Totes	$ 8,525.00
	2-3 totes	250-Gallon Totes	$ 8,525.00
	4 or more totes	250-Gallon Totes	$ 8,525.00
		ITEM 1 TOTAL:	$ 30,152.40
		NOTES:	Product Bid is TK 590-100

BID NO: 750-00-22-050 **COMMODITY: BRIDGE DECK PRESERVATION PRODUCTS** BUYER: JAMIE BOSTYAN

OPENING: MARCH 3, 2022; 2:00 p.m. Central Time

Crack Sealant - 4:1 Mix Ratio			Valence Protective Coatings
(Unit Price is F.O.B. Destination Any NDDOT District Location Delivered)			
Item No.	**QTY**	**Detailed Specifications**	**Unit Price**
4a	1 kit	1-Gallon Kits	$ 116.05
	2-5 kits	1-Gallon Kits	$ 113.00
	6-11 kits	1-Gallon Kits	$ 113.00
	12 or more kits	1-Gallon Kits	$ 111.00
4b	1 kit	5-Gallon Kits	$ 465.75
	2-5 kits	5-Gallon Kits	$ 453.60
	6-11 kits	5-Gallon Kits	$ 453.60
	12 or more kits	5-Gallon Kits	$ 445.50
		ITEM 4 TOTAL:	$ 2,271.50
		NOTES:	Product Bid is TK-2110

BID NO: 750-00-22-050 **COMMODITY: BRIDGE DECK PRESERVATION PRODUCTS** BUYER: JAMIE BOSTYAN

OPENING: MARCH 3, 2022; 2:00 p.m. Central Time

Joint Sealant - Non-sag			Valence Protective Coatings
(Unit Price is F.O.B. Destination Any NDDOT District Location Delivered)			
Item No.	QTY	Detailed Specifications	Unit Price
5	1-25	1-Quart Tubes	$ 18.40
	26-75	1-Quart Tubes	$ 19.92
	76-100	1-Quart Tubes	$ 19.92
	100+	1-Quart Tubes	$ 19.92
		ITEM 5 TOTAL:	$ 78.16
		NOTES:	Product Bid is Sikasil 728-NS

Joint Sealant - Self-leveling			Valence Protective Coatings
(Unit Price is F.O.B. Destination Any NDDOT District Location Delivered)			
Item No.	QTY	Detailed Specifications	Unit Price
6	1-25	1-Quart Tubes	$ 31.05
	26-75	1-Quart Tubes	$ 30.24
	76-100	1-Quart Tubes	$ 30.24
	100+	1-Quart Tubes	$ 29.70
		ITEM 6 TOTAL:	$ 121.23
		NOTES:	Product Bid is Sikasil 728-SL

TK PRODUCTS CONSTRUCTION COATINGS
An Operating Unit of Sierra LLC, Minnetonka, MN

ISO 9001 CERTIFIED

VOC Regulatory Compliance: AIM ☑ OTC ☑ LADCO ☑ CARB ☑ SCAQMD ☐ CANADA ☑

TK-TRI-SILANE 590-100

Deep Penetrating Water Repellent

Item No. TK-590-100

PRODUCT DESCRIPTION

TK-590-100 is a clear, one-component, high performance, deep penetrating 100% silane water repellent for concrete and masonry. Through the process of hydrolysis, TK-590-100 chemically bonds with the surface to form a protective barrier that is far superior to traditional penetrating water repellents.

Features:

- Forms a chemical, and permanent, bond with the substrate to provide ultimate protection against damage due to water and deicing chemical intrusion, acid rain, freeze/thaw exposure, airborne dirt, smog, industrial fumes and most other atmospheric chemicals.
- Reduces staining due to motor oils, greases and food.
- Deep penetrating to eliminate surface moisture which can lead to spalling, freeze damage and rebar corrosion.
- Outperforms typical water repellents which can only bond physically with the surface and thus provide marginal protection.
- The coating is colorless, non-staining and non-yellowing.

USES:

Suitable for vertical or horizontal use on new or existing above-grade surfaces. Use to protect any concrete, burnish block, brick, CMU, single wythe, masonry or cementitious surface. Ideal applications include parking garages and structures, ramps and barriers and showroom, food court, warehousing and stadium flooring.

APPLICATION PROCEDURES:

PREPARATION:

Before using this product, read the Safety Data Sheet for complete safety information.

All surfaces to be treated must be clean and structurally sound. Thoroughly clean surfaces to remove all grease, oils, form oils or other contaminants using waterblast, sandblast or shotblast methods. Best results are obtained by applying TK-590-100 to dry surfaces. It is recommended that surface temperatures be 35°F or above at the time of application to ensure that surfaces are frost-free.

Existing Concrete preparation - Unsound concrete should be removed and cracks or deteriorated areas repaired prior to application. Surfaces may need to be mechanically abraded to acheive maximum penetration.

New Concrete preparation - Water cure fresh concrete. As a standard procedure, allow new concrete to thoroughly cure (usually between 14-28 days) following placement before applying this product.

A test patch should always be performed to determine proper results and coverage rates prior to application.

TECHNICAL DATA	
% Actives:	100%
Flash Point:	125°F
VOC Content:	< 400 g/l
A.I.M. Category:	Waterproofing Sealers and Treatments

APPLICABLE STANDARDS

- ASTM 672-76: Freeze/Thaw Cycle
- ASTM 642-75: Water Absorption
- AASHTO T-260-78: Chloride Penetration
- NCHRP #244, Series II & IV: Chloride Ion Intrusion

TYPICAL PROPERTIES
TK-590-100 is characterized by the following properties:

- Excellent penetration
- High alkali resistance and suitability for either alkaline or neutral substrates
- Provides resistance against traffic abrasion
- Low volatility
- Dries tack free
- Provides early water repellency while allowing interior moisture to escape without damaging the sealer
- Exhibits droplet effect
- Will not etch glass

MIXING:

The material is ready for use and requires no mixing or dilution. It is unlawful to further dilute with non-exempt solvents.

APPLICATION:

Apply by roller, brush or low pressure industrial sprayer.

Industrial Sprayer Equipment:

- 20 psi pump with a ½ gallon to 1 gallon per minute rate.
- 100-10 tip

Ensure complete coverage and saturation by maintaining surface moisture briefly.

Any puddles should be broomed out. When applying to vertical surfaces, apply a light spray to break the surface tension of the wall and follow immediately with a flood coat. Apply horizontally with plenty of overlap and enough material to fully saturate the surface and all mortar joints.

DRYING TIME:
Drying times will vary depending on application rate, and substrate porosity, ambient and/or substrate temperature, humidity, sunlight and project conditions. Restrict foot and vehicular traffic until the surface appears dry and does not track. At 400 square feet per gallon @ 77ºF, you can expect dry times to drive and walk on between one-half hour to one hour. Over application will extend dry times.

CLEAN UP:
Clean tools, equipment and spills with TK-00 XYLENE*.

COVERAGE:
The recommended coverage rate for most concrete substrates is 250-400 square feet per gallon. Very porous surfaces may require two coats.
Coverage rates are provided as a guideline only. Many factors including surface texture, porosity and weather conditions will determine actual coverage rates.

MAINTENANCE:
If wear patterns occur, TK-TRI-SILANE 590-100 may be reapplied to affected areas.

LIMITATIONS:
- Do not use below-grade or under hydrostatic pressure.
- Do not apply if wet or inclement weather are anticipated within 4 hours of application.
- Only apply to structurally sound surfaces as this porduct will not prevent water penetration fully when applied to cracked or unsound surfaces.
- Cover adjacent surfaces with a drop cloth or tarp to prevent damage.
- The typical usable temperature range of this product is 20°F-90°F.
- Use with adequate ventilation.
- Not suitable for use on gypsum.

FIRST AID:
- Consult this product's safety data sheet for additional health and safety information. Safety Data Sheets are available throughTK distributors, the TK office and the TK website.

AVAILABILITY:
TK-TRI-SILANE 590-100 is available through TK Distributors. Contact TK Products for the nearest distributor.

Packaged in 240-gallon totes, 55-gallon drums, 5-gallon pails and 1-gallon cans.

FOR PROFESSIONAL USE ONLY

NOTES:
*TK-00 XYLENE must be purchased separately

08/18 Last Rev. 02/18

TK Products Construction Coatings
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800-441-2129 toll free | 952-938-8084 fax | www.tkproducts.com

TK PRODUCTS CONSTRUCTION COATINGS
An Operating Unit of Sierra LLC, Minnetonka, MN

ISO 9001 CERTIFIED

VOC Regulatory Compliance: AIM OTC LADCO CARB SCAQMD CANADA

TK-BRIDGE DECK & CRACK SEALER 2110

Epoxy Sealer for Concrete Bridge Decks

Item No. TK-2110

PRODUCT DESCRIPTION

TK-2110 BRIDGE DECK & CRACK SEALER is a VOC compliant, low viscosity, solvent-free, two-component, gravity-fed crack and deck sealer designed specifically for Department of Transportation (D.O.T.) projects. May be used as a safer alternative to hazardous methylmethacrylates.

Features

- Ultra low viscosity for penetrating hairline cracks up to 0.1 mm in width (.004 inches).
- Fast turn-around times and shorter traffic delays; surfaces may be reopened to traffic in just 4 hours (at 72°F).
- Protects the surface from chloride chemical attack as well as abrasion, acids, alkali, petroleum and salt spray.
- When topcoated with silica sand, provides skid resistance for safer surfaces.

USES:

Suitable for exterior use on new or existing horizontal concrete bridge decks and parking structures.

APPLICATION PROCEDURES

PREPARATION:

Please note that it is the responsibility of the user to ensure proper application by following all preparation, mixing and application guidelines. Jobsite visits by TK representatives are meant as a source of technical recommendation only, and do not qualify as project supervision or quality management.

The user should be familiar with the application instructions found on the container's label and should have read the material safety data sheet in its entirety prior to using this product.

Minimum age of concrete surfaces is 21-28 days, depending on curing and drying conditions. Surfaces must be dry and free of foreign materials. Sandblasting, shot blasting or water blasting methods should be employed to remove any such materials and prepare the surface for application.

Cracks should be blown clean by compressed air. Any cracks greater than 1/8" in width should be treated individually by filling with dry silica sand, then applying a small amount of TK-EPOXY CRACK FILLER 9000 overtop with a paint brush.

MIXING:

1) Mixing ratio for the two components in 4:1 by volume.

2) Components "A" and "B" are supplied in separate, pre measured containers and should be mixed individually using a power mechanical mixer.

3) The two components should then be combined together by pouring the entire contents of component "B" into component "A" and mixing for 2-3 minutes.

TECHNICAL DATA	
Solids (%):	100
Viscosity (mixed):	124 cps
Flash Point:	> 200°F
Pot-life (@ 70°F):	35 minutes
Shelf Life:	2 years in original, unopened container
Storage Conditions:	Store material in a dry area out of direct sunlight, between 50-90°F (4-32°C)
VOC Content:	< 10 g/l
A.I.M. Category:	Waterproofing Sealers and Treatments Maximum VOC 600 g/l
Applicable Standards:	- ASTM D-638 Tensile Strength and Elongation - ASTM D-695 Compressive Strength - ASTM D-570 Water Absorption - ASTM D-2566 Linear Coefficient of Shrinkage - ASTM C-881 Bond Strength: Type I, II, and IV & V Grade 1, Classes B & C - AASHTO M235: Type I, II, and IV & V Grade 1, Classes B & C

4) Make certain to scrape the sides of the container clean while mixing.

5) Whenever preparing multiple kits of material, mix only the amount that can be used within the pot life of the material.

APPLICATION:

Once mixed, **immediately** pour the entire contents of the epoxy onto the surface and begin to distribute by evenly spreading with a squeegee or roller. Apply this product to one small section of the surface at a time and at a prompt pace as this will substantially prolong (up to 1 hour) the pot life and working time of the material. Allow the epoxy to pond over cracks but do not allow it to settle into tynes. Broom out any excess epoxy from the surface and sweep it out of tynes. Let the material saturate the substrate for 10 minutes, then move on to the next section by squeegeeing it onto the next surface and repeating the process. Do not over apply TK-2110 BRIDGE DECK & CRACK SEALER.

If silica sand is to be used as a topcoat, it should be broadcast immediately once the epoxy has been spread across the entire surface area and before it has had a chance to cure. If a recoat is needed, it should be applied within 24 hours of the original application.

For added traction and skid resistance, TK Products recommends the use of 30 mesh aggregate (dry) to be broadcast at a rate of approximately 4-lbs./100 square feet into the resin before it has cured. Aggregate may be broadcast by hand throwing or by spreader. Excessive loose aggregate must be removed before reopening the surface to traffic.

COVERAGE:

Typical coverage rate is 100-200 square feet per gallon, however this rate can fluctuate based on the substrate, surface profile and the amount of crack in the concrete.

Coverage rates are provided as a guideline only. Many factors including surface texture, porosity and weather conditions will determine actual coverage rates.

APPROXIMATE TACK FREE TIME

(Ambient and Substrate Temperature)

Temperature	55°F (12.8°C)	65°F (18.3°C)	75°F (23.9°C)	85°F (29.4°C)
Tack Free	> 11 + hr	7.5 hr	5.5 hr	3 hr

CLEAN UP:

Clean equipment, tools and spills with an aromatic solvent such as TK-00 XYLENE* before the material dries. Dried material may be removed using an epoxy stripper.

LIMITATIONS:

- TK-2110 BRIDGE DECK & CRACK SEALER is a film and will eventually wear off the surface due to surface abrasion. However any cracks that were treated will remain unaffected.
- Do not use this product if air or substrate temperatures are below 50°F or will fall below this level within 24 hours of application.
- Do not mix previously catalyzed material with fresh material.
- Minimum age of concrete surfaces is 21-28 days, depending on curing and drying conditions.

FIRST AID:

- Consult this product's safety data sheet for additional health and safety information. Safety Data Sheets are available throughTK distributors, the TK office and the TK website.

AVAILABILITY:

TK-2110 BRIDGE DECK & CRACK SEALER is available through TK Distributors. Contact TK Products for the nearest distributor. Packaged in pre measured 1-gallon, 5-gallon and 50-gallon kits.

Kit Contents:

- 1-gallon kit: 1-short filled gallon (Component "A") + 1-short filled quart (Component "B")
- 5-gallon kit: 1-short filled 5-gallon pail (Component "A") + 1-short filled gallon (Component "B")
- 50-gallon kit: 1-short filled 55-gallon drum (Component "A") + 2 5-gallon pails (Component "B")

Contact your TK representative for silica sand availability/ recommendations.

FOR PROFESSIONAL USE ONLY

NOTES:

*TK-00 XYLENE must be purchased separately

03/18v.2 Last Rev. 01/17

TK Products Construction Coatings
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BUILDING TRUST

PRODUCT DATA SHEET

Sikasil®-728 NS

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

PRODUCT DESCRIPTION

Sikasil®-728 NS is a high performance, non-sag. one-component , ultra low modulus elastomeric, neutral cure silicone sealant. Meets the requirements of ASTM D-5893: ASTM C-920, Type S, Grade NS, Class 100/50, Use NT, T, M, G, A, O with ultra low Shore Hardness: TT-S-00230C, Type II, Class A; Class A.

USES

Construction Application

- Highway joints
- Bridges
- Stadiums
- Parking garages
- Plaza decks
- Driveways
- Decks
- Expansion joints
- Saw cut joints

Substrate

- Concrete, steel, glass, aluminum, ceramic, masonry, brick, stone and granite

CHARACTERISTICS / ADVANTAGES

- Durable
- Ideal for cold climates
- Excellent flexibility for extreme high and low temperature conditions
- Excellent flexibility for dynamic joint movement
- Bonds to most substrates without priming; best performance obtained in horizontal joints when primed
- Ready to use, labor cost reduction
- Non sag, excellent for vertical joints
- All season ease of application
- Excellent for use on all types of concrete joints
- Jet fuel resistant
- Resistant to road salts

PRODUCT INFORMATION

Chemical Base	Neutral cure silicone
Packaging	4.5 gal (17 l) in a 5 gal pail 52 gal (197 l) in 55 gal drum 29 oz. cartridge/12 per case
Color	Limestone and Charcoal Gray
Shelf Life	When stored in the original, unopened containers at or below 90 °F (32 °C), shelf life is one year. A product skin may form in pails and drums, remove

	prior to use.
Storage Conditions	Store in unopened containers at temperatures at or below 90 °F (32 °C).
Volatile organic compound (VOC) content	1.64 % by wt., 21 g/l, 0.18 lb./gal.

TECHNICAL INFORMATION

Shore Hardness	50 5-10	Shore OO (after 7 days) Shore A (after 7 days)	(ASTM C-661, ASTM D 2240)
Tensile Strength	175 psi (1.20 MPa)		(ASTM D-412)
Tensile Stress at Specified Elongation	35 psi (0.24 MPa) at 100 % elongation		(ASTM D-412)
Elongation at Break	~1 000 %		(ASTM D-412)
Adhesion in Peel	~7 N/mm (40 lbf/in) on mortar substrate		(ASTM C-794)
Movement Capability	+100 % / −50 %		(ASTM C-719)
Resistance to Weathering	Excellent		
Service Temperature	−80 °F min. (-62 °C) / +350 °F max. (177 °C)		
Joint Design	**Joint Design:** The number of joints and the joint width should be designed for a recommended joint movement of +25 % and -25 % at time of installation. The depth of the sealant should be 1/2 the width of the joint. The maximum depth is 1/2 inch (13 mm) and the minimum is 3/8 inch (10 mm). For joints greater than 1 inch (25.4 mm), do not exceed 1/2 inch (13 mm) in depth. **Joint Backing:** To control joint depth, use closed cell polyethylene or non-gassing polyolefin backer rod. If joint depth does not allow for backer rod, use polyethylene bond breaker tape to prevent three-sided adhesion. Closed cell backer rod should be 25 % larger than joint width; do not compress more than 40 %.		

APPLICATION INFORMATION

Coverage

1 gallon: Yield in Linear feet

Width/Depth	1/4"	3/8"	1/2"
1/4"	307.9		
3/8"	205.3	136.8	
1/2"	153.9	102.6	77.0
3/4"	102.6	68.4	51.3
1"			38.5
1.25"			30.8
1.5"			25.7

29 oz Cartridge: Yield in Linear feet

Width/Depth	1/4"	3/8"	1/2"
1/4"	69.8		
3/8"	46.5	31.0	
1/2"	34.9	23.3	17.4
3/4"	23.3	15.5	11.6
1"			8.7
1.25"			7.0
1.5"			5.8

Backing Material	Use closed cell, polyethylene foam backing rods 25 % larger than the joint width. If the joint depth does not allow for a backer rod, use polyethylene bond breaker tape to prevent three-sided adhesion.	
Sag Flow	none	(ASTM D-2202)
Cure Time	1/16” / 24 hours	(MNA Method)
Skin Time	15–25 minutes	(77 °F (25 °C) / 50 % R.H.) (MNA Method)
Tack Free Time	30–40 minutes	(77 °F (25 °C) / 50 % R.H.) (ASTM C-679)

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

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

Porous Substrates – clean by mechanical methods to expose a sound surface free of contamination and laitance.

Non-porous substrates – for cleaning non-porous substrates, use two rag wipe method using xylene or an approved commercial solvent. Allow solvent to evaporate prior to sealant application.

Primer
Sikasil®-728 NS is designed to obtain adhesion without the use of a primer; however, best results are obtained when horizontal joints are primed. Test by applying the sealant and/or primer sealant combination to confirm results and proposed application methods. Refer to Technical Data Sheet for Sikasil Primer 2100 and contact Technical Service for additional information.

APPLICATION METHOD / TOOLS

Ready to use, apply using professional caulking gun or dispensing equipment. Do not open product container until preparation work has been completed. Apply sealant using consistent, positive pressure to force sealant into the joint. Apply the sealant so that it is recessed 1/8 inch (3 mm) below the surface. For parking deck joints, recess 1/4 inch (6 mm). For highway joints, recess 1/2 inch (13 mm). Tool sealant to create a concave joint shape and maximum adhesion. Dry tooling is recommended. DO NOT use soapy water or other liquids when tooling. Remove excess sealant from substrate while uncured using a commercial solvent, such as xylene. Strictly follow the solvent manufacturer’s warnings and instructions for use. Cured sealant may be removed by mechanical means.

LIMITATIONS

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

polyurethane sealants during cure.
- Not intended for immersion.
- Sealant may be applied below freezing temperatures if substrates are completely dry, frost free and clean. Contact Technical Service for more information.
- Not recommended for structural glazing applications.
- Test recommended for absorptive surfaces such as granite, limestone or marble where staining may occur.
- Do not apply to substrates that bleed oil, plasticizers or solvent.
- Do not apply to damp or wet substrates.
- Lower temperature and humidity will extend tack free time and cure rates.
- Allow treated wood to age six months before application.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

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

LEGAL DISCLAIMER

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

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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 the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at https://usa.sika.com/en/group/SikaCorp/termsandconditions.html or by calling 1-800-933-7452.

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BUILDING TRUST

PRODUCT DATA SHEET

Sikasil®-728 SL

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

PRODUCT DESCRIPTION

Sikasil®-728 SL is a self-leveling, one-component, ultra low modulus, elastomeric, neutral cure silicone sealant. Meets the requirements of ASTM D-5893; ASTM C-920, Type S, Grade P, Class 100/50; Use T, M, G, A, O with an ultra low Shore Hardness; TT-S-00230C, Type I, Class A; TT-S-001543A, Class A.

USES

Construction Application

- Highway joints
- Bridges
- Stadiums
- Parking garages
- Plaza decks
- Driveways
- Decks
- Expansion joints
- Saw cut joints

Substrate

- Concrete, steel, glass, aluminum, tile, ceramic, masonry, asphalt, brick, stone and granite

CHARACTERISTICS / ADVANTAGES

- No tooling, less labor
- Durable
- Ideal for cold climates
- Excellent flexibility for extreme high and low temperature conditions
- Excellent flexibility for dynamic joint movement
- Bonds to most substrates without priming including aged asphalt and concrete
- Ready to use
- All season ease of application
- Good contact/adhesion with hard to reach areas
- Excellent for use on runways and tarmacs
- Jet fuel resistant
- Resistant to road salts

PRODUCT INFORMATION

Chemical Base	Neutral cure silicone
Packaging	4.5 gal (17 L) in a 5 gal pail 52 gal (197 L) in 55 gal drum 29 oz. cartridges/12 per case.
Color	Limestone and Charcoal Gray.
Shelf Life	12 months in original unopened container. A product skin may form in pails and drums, remove prior to use.

Storage Conditions	Store in unopened containers at temperatures at or below 90 °F (32 °C).
Volatile organic compound (VOC) content	2.27 % by wt., 29 g/L, 0.24 lb./gal.

TECHNICAL INFORMATION

Shore Hardness	3-5	Shore A (after 7 days)	(ASTM C-661, ASTM D-2240)
	40	Shore OO (after 7 days)	
Shore A Hardness	3–5		(after 7 days) (ASTM C-661, ASTM D-2240)
Tensile Strength	100 psi (0.69 MPa)		(ASTM D-412)
Tensile Stress at Specified Elongation	30 psi (0.21 MPa) at 100 % elongation		(ASTM D-412)
Elongation at Break	1100 %		(ASTM D-412)
Adhesion in Peel	25 pli		(ASTM C-794)
Movement Capability	+100 % / –50 %		(ASTM C-719)
Resistance to Weathering	Excellent		(ASTM C-793)
Service Temperature	-80 °F min. / +350 °F max. (-60 °C min. / 175 °C max.)		

APPLICATION INFORMATION

Coverage

1 gallon: Yield in Linear feet

Width/Depth	1/4"	3/8"	1/2"
1/4"	307.9		
3/8"	205.3	136.8	
1/2"	153.9	102.6	77.0
3/4"	102.6	68.4	51.3
1"			38.5
1.25"			30.8
1.5"			25.7

29 oz Cartridge: Yield in Linear feet

Width/Depth	1/4"	3/8"	1/2"
1/4"	69.8		
3/8"	46.5	31.0	
1/2"	34.9	23.3	17.4
3/4"	23.3	15.5	11.6
1"			8.7
1.25"			7.0
1.5"			5.8

Skin Time	60 minutes	(77 °F (25 °C), 50 % R.H) (MNA Method)
Tack Free Time	115 minutes	(77 °F (25 °C), 50 % R.H.) (ASTM C-679)

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Joint Design: The number of joints and the joint width should be designed for a recommended joint movement of +25 % and -25 % at time of installation. The depth of the sealant should be 1/2 the width of the joint. The maximum depth is 1/2 inch (13 mm) and the minimum is 3/8 inch (10 mm). For joints greater than 1 inch (25.4 mm), do not exceed 1/2 inch (13 mm) in depth.

Joint Backing: To control joint depth, use closed cell polyethylene or non-gassing polyolefin backer rod. If joint depth does not allow for backer rod, use polyethylene bond breaker tape to prevent three-sided adhesion. Closed cell backer rod should be 25 % larger than joint width; do not compress more than 40 %.

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

Porous Substrates – clean by mechanical methods to expose a sound surface free of contamination and laitance.

Non-porous substrates – for cleaning non-porous substrates, use two rag wipe method using xylene or an approved commercial solvent. Allow solvent to evaporate prior to sealant application.

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

APPLICATION METHOD / TOOLS

Ready to use, apply using professional caulking gun or dispensing equipment. Do not open product container until preparation work has been completed. Apply sealant using consistent, positive pressure to force sealant into the joint. Apply the sealant so that it is recessed 1/8 inch (3 mm) below the surface. For parking deck joints, recess 1/4 inch (6 mm). For highway joints, recess 1/2 inch (13 mm). Sikasil®-728 SL is self leveling therefore, no tooling is needed. It is typical that Sikasil®-728 SL may retain some residual surface tack in its first 10–14 days of cure. This condition does not affect the time the surface joint can be open to service in a properly recessed sealant joint. Sikasil®-728 SL will obtain adhesion to aged, cured asphalt. Never use on newly poured asphalt. Conduct a field test to document and confirm adhesion under actual jobsite conditions.

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

LIMITATIONS

- Do not allow sealant to come in contact with solvent during cure.
- Do not allow sealant to come in contact with curing polyurethane sealants during cure.
- Not intended for immersion.
- Sealant may be applied below freezing temperatures if substrates are completely dry, frost free and clean. Contact Technical Service for more information.
- Not intended for structural glazing.
- Test recommended for absorptive surfaces such as granite, limestone or marble where staining may occur.
- Do not apply to surfaces that will be painted.
- Do not apply to substrates that bleed oil, plasticizers or solvent.
- Do not apply to damp or wet substrates.
- Lower temperature and humidity will extend tack free and cure rates.
- Allow treated wood to age six months before application.
- Brass and copper may be discolored. Test apply prior to application.
- Test sensitive substrates for compatibility before use.
- Due to the very low tensile strength of asphalt and possibility that asphalt may fail cohesively within itself, Sikasil®-728 SL is not recommended for asphalt to asphalt joints.

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

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

LEGAL DISCLAIMER

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

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service

Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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 the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **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.**

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