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.**

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.

Sika Corporation
201 Polito Avenue
Lyndhurst, NJ 07071
Phone: +1-800-933-7452
Fax: +1-201-933-6225
usa.sika.com

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