

# PRODUCT DATA SHEET

## Sikasil<sup>®</sup>-728 SL

SELF-LEVELING, ULTRA LOW-MODULUS, HIGHWAY/PARKING GARAGE, NEUTRAL CURE SILICONE SEALANT

### PRODUCT DESCRIPTION

Sikasil<sup>®</sup>-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

<b>Chemical Base</b>	Neutral cure silicone
<b>Packaging</b>	4.5 gal (17 L) in a 5 gal pail 52 gal (197 L) in 55 gal drum 29 oz. cartridges/12 per case.
<b>Color</b>	Limestone and Charcoal Gray.
<b>Shelf Life</b>	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

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

#### LOCAL 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**

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