

PRODUCT DATA SHEET

Sikaflex® SL 2 Slope Grade

MULTI-COMPONENT SLOPE GRADE SEMI-SELF-LEVELING POLYURETHANE SEALANT

PRODUCT DESCRIPTION

Sikaflex® SL 2 Slope Grade is a multi-component, semi self-leveling, elastomeric polyurethane sealant that is mixed and poured in place. When cured, it forms a tough, resilient joint seal that resists penetration and abrasion and remains flexible when exposed to weather and aging.

USES

- Horizontal
- Expansion joints
- Control joints
- Driveways/garages
- Sidewalks
- Decks
- Parking structures
- Pitch pans

SUBSTRATES

- Concrete
- Metal

CHARACTERISTICS / ADVANTAGES

- Formulated to withstand vehicular traffic
- Abrasion-resistant to help handle pedestrian and vehicular traffic
- Joint movement capability $\pm 25\%$ provides excellent flexibility for keeping moving joints weathertight
- Weather resistant, producing long-lasting weathertight seals
- Easy to gun and tool, speeding up application and making neater joints
- No primer is required for most construction materials, lowering installation costs
- The wide temperature-application range makes Sikaflex® SL 2 Slope Grade suitable for all climates
- Suitable for water immersion with documented performance in wet areas
- Chemical cure allows for faster turnaround time
- Bulk packaging results in less waste
- Long pot life offers extended working time

APPROVALS / STANDARDS

- ASTM C 920, Type M, Grade P, Class 25, Use T, NT, M, A, O*, and I
- Federal Specification TT-S-00227E, Type I, Class A
- CFI accepted

*Refer to substrates in Uses

PRODUCT INFORMATION

Chemical Base	Sikaflex® SL 2 Slope Grade is a multi-component polyurethane that cures by chemical reaction after proper mixing.
Packaging	▪ 1.5 gallon units in 2 gallon (5.67 L) pails ▪ 3 gallon unit in 3.5 gallon (11.3 L) pails
Color	Limestone (Pre-pigmented) Tint Base: 40 standard, stocked colors are available. Refer to the Popular

Palette for Sealants and Waterproofing.

Custom matching can be done upon request.

Shelf Life	24 months
Storage Conditions	Store in unopened containers in cool, clean, dry area out of direct sunlight. Elevated temperatures will shorten shelf life.

TECHNICAL INFORMATION

Shore Hardness	Shore A 35 ± 5	(21 days at 73 °F (23 °C) and 50 % R.H.) (ASTM D-2240)
Tensile Strength	170 psi (0.9 MPa)	(21 days at 73 °F (23 °C) and 50 % R.H.) (ASTM D 412)
Elongation	600%	(21 days at 73 °F (23 °C) and 50 % R.H.) (ASTM D-412)
Shrinkage	None	
Tear Strength	± 42 lbs/in	(73 °F (23 °C) and 50 % R.H.) (ASTM D-624)
Movement Capability	± 25	ASTM C 719
Low Temperature Bend	Passes	(Low-temperature flexibility -15°F (-26°C), ASTM C 793)
Resistance to Weathering	Passes	
Service Temperature	-40 °F to +170 °F (-40 °C to 77 °C)	
Joint Design	Joint Width and Sealant Depth	
	Joint Width, IN (MM)	Sealant Depth At midpoint, IN (MM)
	¼–½ (6–13)	¼ (6)
	½–¾ (13–19)	¼–3/8 (6–10)
	¾–1 (19–25)	3/8–½ (10–13)
	1–2 (25–50)	½ (13)
Adhesion in peel	Passes	(ASTM C 794, On concrete)
Color	No visible stain	(ASTM C 510)
Extrusion rate	Passes	(ASTM C 603)

APPLICATION INFORMATION

Coverage

Linear Feet per Gallon

Width/Depth (In.)	1/4	3/8	1/2
1/4	308	-	-
3/8	205	-	-
1/2	154	-	-
5/8	122	82	-
3/4	-	68	51
7/8	-	58	44
1	-	51	38
3/2	-	-	26
2	-	-	19

Meters per Liter

Width/Depth (mm)	6	10	13
6	24.8		
10	16.5		
13	12.4		
16	9.8	6.6	
19		5.5	4.1
22		4.7	3.5
25		4.1	3.0
38			2.2
50			1.5

Pot Life	4 hrs.	73° F (23° C) and 50% R.H.
Cure Time	3 days	73° F (23° C) and 50% R.H. (ASTM C 679)
Tack Free Time	< 24 hrs	73° F (23° C) and 50% R.H. (ASTM C 679)
Flowability	Semi Self Leveling	

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.

ENVIRONMENTAL, HEALTH AND SAFETY

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Joints must be clean and dry. Joint surfaces must be structurally sound, fully cured, and free of all loose aggregate, paint, oil, grease, asphalt, wax, mastic compounds, waterproofing compounds, form-release materials, curing compounds, or any other contaminants.

New Concrete

Remove all loose material from joints by wire brushing. Sandblast surfaces in contact with form-release agents. Fresh concrete must be fully cured. Laitance must be removed by abrading.

Old Concrete

For previously sealed joints, remove all old material by mechanical means. If joint surfaces have absorbed oils, remove sufficient concrete to ensure a clean surface.

Priming

- For most applications, priming is not required; joints subject to periodic water immersion, however, must be primed with Sika® Primer-429. On surfaces other than concrete, conduct a test application to verify adhesion.
- Apply primer in a thin, uniform film. Avoid buildup of excess primer.

- Avoid applying primer beyond joint faces. To minimize the contamination of adjacent surfaces, apply masking tape before priming and remove before the sealant has begun to thicken and set.
- Allow approximately 15 – 30 minutes drying time before applying sealant (primer should be tack-free). Priming and sealing must be done on the same day.

MIXING

- Sikaflex® SL 2 Slope Grade is a multi-component system with a configuration of Part A, Part B, and a color pack. Pre-pigmented units do not use a color pack.
- Transfer the entire contents of Sikaflex®-900 pigment color pack into the Part A. Use a spatula or knife to remove all the pigment from the container. Continue mixing with a slow-speed drill and sealant mixing paddle until the color is uniform. During the process, scrape the sides and bottom of the mixing container several times to obtain a complete mix.
- Transfer the entire content of Part B to pre-mixed Part A container using a spatula or margin trowel.
- Part B must be mixed thoroughly with pre-mixed Part A. Scrape the sides of the container to ensure complete mixing of mixed Parts A and B. With a slow-speed drill and a sealant mixing paddle, mix for 4–6 minutes. Keep the paddle blade below the surface of the sealant to avoid whipping air into the sealant.

NOTE:

- 1.5 gal unit kit use **one** Sikaflex®-900 pigment color pack
- 3.0 gal unit kit use **two** Sikaflex®-900 pigment color packs

APPLICATION METHOD / TOOLS

1. The product may be used in sealant joints designed in accordance with SWR Institute's Sealants - The Professional's Guide.
2. In optimal conditions, the depth of the sealant should be ½ the width of the joint. The sealant joint depth (measured at the center) should always fall between the maximum depth of ½" and the minimum depth of ¼". Refer to Joint Design.
3. In deep joints, the sealant depth must be controlled by a closed-cell backer rod or soft backer rod. Where the joint depth does not permit the use of a backer rod, a bond breaker (polyethylene strip) must be used to prevent three-point bonding.
4. To maintain the recommended sealant depth, install the backer rod by compressing and rolling it into the

joint channel without stretching it lengthwise. Closed cell backer rod should be about 1/8" (3 mm) larger in diameter than the width of the joint to allow for compression. The soft backer rod should be approximately 25% larger in diameter than the joint width. The sealant does not adhere to it, and no separate bond breaker is required. Do not prime or puncture the backer rod.

APPLICATION

1. All caulking and sealing should be performed when temperatures are above 40 °F (4 °C); any moisture or frost on surfaces will adversely affect adhesion.
2. Fill joints from the bottom; avoid bridging the joint, which may form air voids.
3. For large joints, the self-leveling grade may be poured directly from the can.
4. For smaller joints and all slope-grade applications, fill the joint by flowing the sealant from a bulk-loading gun.
5. Light tooling of the slope-grade sealant is recommended to smooth out ripples. On sloped surfaces, tool from the lowest point to the highest. Do not use soap or solvent.

Curing

Cure time will vary with humidity and temperature. Initial cure is within 24 hours and complete cure takes approximately 7 days. Allow 14-day cure at 70 °F (23 °C) before water immersion. Cure rates are dependent on temperature and humidity. Protect joint from dirt and traffic until cured.

CLEANING OF TOOLS

1. Immediately after use and before the sealant has cured, clean equipment with SikaSwell®-990 or xylene.
2. The cured sealant may be removed by cutting with a sharp-edged tool. Remove thin films by abrading.

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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Product Data Sheet

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