

Sikaflex®-1C SL

High performance, self-leveling,
1-part polyurethane sealant

Description	Sikaflex-1C SL is a single component, self-leveling, premium-grade polyurethane sealant with an accelerated curing capacity. Meets Federal Specification TT-S-00230C, Type 1, Class A. Meets ASTM C-920, Type S, Grade P, Class 25, use T, NT, M, O, G, I.
Where to Use	Sikaflex-1C SL is used to seal horizontal expansion joints in concrete and cementitious slabs such as: <ul style="list-style-type: none"> ■ Sidewalks ■ Balconies ■ Pavements ■ Terraces ■ Warehouses ■ Factories ■ Civil Structures ■ Plazas
Advantages	<ul style="list-style-type: none"> ■ 1-component, no mixing ■ Self-leveling, pourable ■ Accelerated curing ■ Permanently elastic ■ High durability ■ Resists aging, weathering ■ Excellent adhesion ■ Convenient, easy-to-use packaging ■ Jet fuel resistant
Coverage	10 fl. oz. cartridge seals 12 lineal ft. of 1/2 x 1/4 in. joint. 30 fl. oz. cartridge seals 36 lineal ft. of 1/2 x 1/4 in. joint.
Packaging	10 fl. oz. moisture-proof composite cartridges, 24/case. 30 oz. moisture-proof composite cartridges, 12/case. Available on special order: 5 gallon pails.

Typical Data (Material and curing conditions 73°F (23°C) and 50% R.H.)

Shelf Life	10 oz. cartridge 1 year in original unopened packaging
	29 oz. cartridge 1 year in original unopened packaging
	5 gal. pail 6 months
	55 gal. drum 6 months
Storage Conditions	Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using.
Color	Limestone
Application Temperature	40°-100°F. Sealant should be installed when joint is at mid-range of its anticipated movement.
Service Range	-40° to 170°F.
Curing Rate	Tack-free Time: 1 to 2 hours. Final Cure: 3 to 5 days
Recovery	>90%
Shore 'A' Hardness (ASTM D-2240)	21 Day 45 ± 5
Tensile Properties (ASTM D-412)	
21 Day Tensile Strength:	550 psi
Elongation @ Break:	700%
Modulus of Elasticity 100%:	150 psi
Adhesion in Peel (ASTM C-794)	
Substrate Peel Strength Adhesion Loss	
Concrete > 30 pli 0% Adhesion Loss	
Joint Movement	± 25%
Weathering Resistance	Excellent



How to Use

Surface Preparation Clean all surfaces. Joint walls must be sound, clean, dry, frost-free, and free of oil and grease. Curing compound residues and any other foreign matter must be thoroughly removed. Install bond breaker tape or backer rod to prevent bond at base of joint.

Priming Priming is not usually necessary. Substrates only require priming if testing indicates a need or where sealant will be subjected to water immersion after cure. Consult Sikaflex Primer Technical Data Sheet or Technical Service for additional information on priming.

Application Recommended application temperatures: 40°-100°F. Pre-conditioned sealant to approximately 70°F is necessary when working at extremes. For best performance, Sikaflex-1CSL should be poured into joint when joint slot is at mid-point of its designed expansion and contraction. Pour sealant into joint slot in one direction and allow sealant to flow and level out as necessary. Tool as required, although minimum tooling is necessary. Joint dimension should allow for 1/4 inch minimum and 1/2 inch maximum thickness for sealant. Proper design is 2:1 width to depth ratio. Always use bond breaker tape or closed cell backer rod for support on horizontal joints.

- Limitations**
- Allow 1 week cure at standard conditions when using Sikaflex-1CSL in total water immersion situations.
 - Maximum exposure level of chlorine is 5 ppm.
 - In joints subject to movement - maximum depth of sealant must not exceed 1/2 in.; minimum depth is 1/4 in.
 - Minimum depth of sealant for horizontal joints subject to traffic is 1/2 in.
 - Maximum expansion and contraction should not exceed 25% of average joint width.
 - Do not cure in the presence of curing silicone sealants.
 - Avoid contact with alcohol and other solvent cleaners during cure.
 - Do not apply when moisture-vapor transmission condition exists from the substrate as this can cause bubbling within the sealant.
 - Use opened uni-pac sausages the same day.
 - The ultimate performance of Sikaflex- 1C SL depends on good joint design and proper application with joint surfaces properly prepared.
 - Some minimal surface skinning of product may be present in bulk packaging (pails, drums) with in its shelf life. Cut and discard cured material to expose the uncured product that still may be used.

Caution

Irritant **Sensitizer; Combustible Liquid** - Contains xylenes, ethyl benzene, isocyanate prepolymer. Can cause skin and/or respiratory sensitization after prolonged or repeated exposure. Skin, eye, respiratory irritant. Avoid skin contact. Use only with adequate ventilation. Use of safety goggles and chemical resistant gloves is recommended. In case of exceedance of PELs, use an appropriate, properly fitted NIOSH approved respirator. Remove contaminated clothing. Keep away from sparks, open flames and high heat.

First Aid In case of skin contact, wash immediately and thoroughly with soap and water. If symptoms persist, consult physician. For eye contact, flush immediately with plenty of water for at least 15 minutes; contact a physician. For respiratory problems, remove person to fresh air; if symptoms persist, consult physician. In case of ingestion, dilute with water and consult physician. Remove contaminated clothing.

Clean Up In case of spills or leaks, wear suitable protection equipment, contain spill, collect with absorbent material, and transfer to a suitable container. Ventilate area. Avoid contact. Dispose of in accordance with current, applicable local, state and federal regulations.

Linear Feet of Sealant per Gallon

Width	Depth						
	Inches	1/4	1/2	3/4	1	1.25	1.5
1/4	308.0						
1/2	154.0	77.0					
3/4	102.7	51.3	34.2				
1	77.0	38.5	25.7	19.3			
1.25	61.6	30.8	20.5	15.4	12.3		
1.5	51.3	25.7	17.1	12.8	10.3	8.6	

KEEP CONTAINER TIGHTLY CLOSED
NOT FOR INTERNAL CONSUMPTION
CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY

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 technical 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.

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