

Product Data Sheet

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Sikaflex + Self-Leveling Sealant

Sikaflex® + Self-Leveling Sealant

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

Description	Sikaflex + Self-leveling Sealant 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.
Where to Use	Sikaflex + Self-Leveling Sealant is used to seal horizontal expansion joints in concrete and cementitious slabs such as: <ul style="list-style-type: none"> ■ Driveways ■ Garages ■ Sidewalks ■ Balconies ■ Pavements ■ Terraces ■ Warehouses ■ Factories ■ Civil Structures ■ Plazas
Advantages	<ul style="list-style-type: none"> ■ 1-component, no mixing ■ Self-leveling, pourable ■ Can be applied to green/new concrete 24 hours after cure ■ Can be applied on concrete that has been wet 1 hour after water source has stopped ■ Accelerated curing ■ Permanently elastic ■ High durability ■ Resists aging, weathering ■ Excellent adhesion ■ Convenient, easy-to-use packaging
Coverage	10.1 oz. cartridge seals 12 ft. of ½ x ¼ in. joint. 29 oz. cartridge seals 36 lineal ft. of ½ x ¼ in. joint.
Packaging	10.1 fl. oz. moisture proof composite cartridge, 12/case. 29 fl. oz. moisture-proof composite cartridges, 12/case.

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

RESULTS MAY DIFFER BASED UPON STATISTICAL VARIATIONS DEPENDING UPON MIXING METHODS AND EQUIPMENT, TEMPERATURE, APPLICATION METHODS, TEST METHODS, ACTUAL SITE CONDITIONS AND CURING CONDITIONS.

Shelf Life	1 year in original unopened packaging.	
Storage Conditions	Store at 40°-95°F (4°-35°C). Condition material to 65°-75°F before using.	
Color	Gray	
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: 2 to 4 hours. Final Cure: 3 to 5 days	
Recovery	>90%	
Shore 'A' Hardness (ASTM D-2240)	21 Day	40 ± 5
Tensile Properties (ASTM D-412)		
21 Day	Tensile Strength	110 psi
	Elongation @ Break	450%
	Modulus of Elasticity 100%	150 psi
Adhesion in Peel (ASTM C-794)		
Substrate: Concrete	Peel Strength: > 28 pli	Adhesion Loss: 0% Adhesion Loss
Joint Movement	± 25%	



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 + Self-Leveling Sealant 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 ¼ inch minimum and ½ 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.

For green/new concrete application, 24 hours after concrete has cured. Concrete must be of good quality and strength. **Note:** Curing will vary depending on temperature and humidity.

- In formed joints, forms must be removed 4 hours before applying sealant.
- In control joints, concrete must be cut 8 hours before applying sealant.

For wet concrete application, water source must be stopped 1 hour before application and concrete must be free of standing water.

Limitations

- Allow 1 week cure at standard conditions when using Sikaflex + Self-Leveling Sealant 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 ½ in.; minimum depth is ¼ in.
- When using on green/new concrete, concrete must be good quality and strength, sealing poor or low strength concrete 24 hours after may impact the ability of the sealant to gain proper adhesion.
- On wet concrete, water source must be stopped 1 hour before application and concrete must be free of standing water.
- Minimum depth of sealant for horizontal joints subject to traffic is ½ 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 cartridges the same day.
- The ultimate performance of Sikaflex Plus Self-Leveling Sealant depends on good joint design and proper application with joint surfaces properly prepared.
- Do not use in contact with bituminous / asphaltic materials.



Residential

Sikaflex® + Self-Leveling Sealant



Caution

Contains: titanium dioxide (CAS: 13463-67-7), Isophoronedialdimine (CAS: 932742-30-8), xylene (CAS: 1330-20-7), ethylbenzene (CAS: 100-41-4), Aliphatic polyisocyanate (CAS: 28182-81-2), Quartz (SiO₂) (CAS: 14808-60-7), Hindered amine derivatives (Proprietary). Reports have associated repeated and prolonged exposure to some of the chemicals in this product with permanent brain, liver, kidney and nervous system damage. Intentional misuse by deliberate concentration and inhalation of vapors may be harmful or fatal.

WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm. **WARNING!** This product contains a chemical known in the State of California to cause cancer.

HMIS: *3, 2, 0,X.

VOC: 32.5 g/l.

KEEP CONTAINER TIGHTLY CLOSED • KEEP OUT OF REACH OF CHILDREN • NOT FOR INTERNAL CONSUMPTION

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

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at <http://usa.sika.com/> or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

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 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. 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 SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT [HTTP://USA.SIKA.COM/](http://usa.sika.com/) OR BY CALLING 201-933-8800.**

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