

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 ■ 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 1/2" x 1/4" joint. 29 oz. cartridge seals 36 lineal ft. of 1/2" x 1/4" 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	150 psi
	Elongation @ Break	450%
	Modulus of Elasticity 100%	150 psi
Adhesion in Peel (ASTM C-794)		
Substrate: Concrete	Peel Strength: > 30 pli	Adhesion Loss: 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. Condition sealant to 65-75°F before using. Cut plastic tip to desired size and puncture airtight seal at base of tip. **NOT FOR SLOPED SURFACES.** Maximum sealant depth is 1/2" and width is 1-3/4". Minimum depth is 1/4" and width is 1/4". 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" minimum and 1/2" 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 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 1/2"; minimum depth is 1/4".
- Minimum depth of sealant for horizontal joints subject to traffic is 1/2".
- 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 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.
- When over-coating with water, oil and rubber based paints, compatibility and adhesion testing is essential.

Clean Up

Uncured material can be removed with approved solvent. Cured material can only be removed mechanically. For spillage, collect, absorb, and dispose of in accordance with current, applicable local, state, and federal regulations.



Residential



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

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