

Sikaflex[®] Self-Levelling Sealant

High performance, self-levelling, 1 part polyurethane sealant

Construction

Description	Sikaflex Self-Levelling Sealant is a single component, self-levelling, premium grade polyurethane sealant with an accelerated curing capacity.
Uses	<p>Sikaflex Self-Levelling Sealant is used to seal horizontal expansion joints in concrete and cementitious slabs such as:</p> <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-levelling, pourable■ Accelerated curing■ Permanently elastic■ High durability■ Resists aging, weathering■ Excellent adhesion■ Convenient, easy to use packaging
Shelf Life / Storage conditions	Store between 4°C and 35°C. The self life of this product is one (1) year if stored in original unopened packaging
Packaging	300 ml cartridge
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 or backer rod to prevent bond to 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 our Technical Department for additional information on priming.
Application	Recommended application temperature is 4°C - 38°C. Pre-condition sealant to approx. 21°C is necessary when working at extremes. For best performance, Sikaflex Self-Levelling 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 be for 6 mm minimum and 12 mm 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.



Typical Data (23°C / 50% r.h.)

Colour	Grey	
Application temperature	4°C - 38°C. Sealant should be installed when joint is at mid range of its anticipated movement.	
Service range	-40°C to 76°C	
Cure rate	Tack free time	1-2 hours
	Final cure	3-5 days
Recovery	> 90%	
Shore A Hardness	45 ± 5 @ 21 days	ASTM D-2240
Tensile Strength	550 psi	ASTM D-412
Elongation at break	700%	ASTM D-412
Modulus of Elasticity	150 psi	ASTM D-412
Joint Movement	± 25%	
Coverage	300 ml cartridge seals approx. 3.65 metres of 12 mm x 6 mm joint.	
Limitations	<ul style="list-style-type: none"> • Allow 1 week cure at standard conditions when using Sikaflex Self-Levelling Sealant in total water immersion situations. • Maximum exposure level if chlorine is 5 ppm. • In joints subject to movement maximum depth of sealant must not exceed 12 mm; minimum depth is 6 mm. • Minimum dept of sealant for horizontal joints subject to traffic is 12 mm. • 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 vapour transmission condition exists from the substrate as this can cause bubbling with in the sealant. • Use opened cartridges the same day • The ultimate performance of Sikaflex Self-Levelling Sealant depends on good joint design and proper application with joint surfaces properly prepared. 	

Handling Precautions

Sika sealants are generally harmless provided that certain precautions normally taken when handling chemicals are observed. The uncured materials must not, for instance, be allowed to come into contact with foodstuffs or food utensils, and measures should also be taken to prevent the uncured materials from coming into contact with the skin, since people with particularly sensitive skin may be affected. The use of protective clothing, goggles, barrier creams and rubber gloves is recommended. The skin should be thoroughly cleansed at the end of each working period either by washing with soap and warm water or by using a resin removing cream – the use of powerful solvents is to be avoided. Disposable paper towels, not cloth towels should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water. Consult a doctor immediately.

Important Notes

- Alcohol containing solvents should not be used as a tooling aid, as these will inhibit the cure of polyurethane adhesives / sealants.
- Epoxy resin coatings should be fully cured prior to the application of the adhesive / sealant as the uncured amine component could inhibit the cure of polyurethane adhesives / sealants.

Important Notification

The information, and, in particular, the recommendations relating to the application and end-use of Sika's products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject of our terms and conditions of sale. Users should always refer to the most recent issue of the Australian version of the Product Data Sheet for the product concerned, copies of which will be supplied on request.

PLEASE CONSULT OUR TECHNICAL DEPARTMENT FOR FURTHER INFORMATION.

