



PRODUCT DATA SHEET

Edition 12.2018/v1

# Sikaflex® Self-Leveling Sealant

## HIGH PERFORMANCE, SELF-LEVELLING ONE-PART POLYURETHANE SEALANT

<b>Description</b>	Sikaflex® Self-Leveling Sealant is a single component, self-levelling, premium-grade polyurethane sealant with an accelerated curing capacity.
<b>Where to Use</b>	Sikaflex® Self-Leveling Sealant is used to seal horizontal movement joints in concrete and cementitious substrates such as: <ul style="list-style-type: none"> <li>▪ Driveways and garage floors</li> <li>▪ Sidewalks and pavements.</li> <li>▪ Balcony decks.</li> <li>▪ Civil structures.</li> <li>▪ Terrace decks.</li> <li>▪ Pedestrian plazas.</li> <li>▪ Warehouse and factory floors.</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>▪ Capable of <math>\pm 25\%</math> joint movement.</li> <li>▪ Convenient, easy-to-use packaging.</li> <li>▪ 1-component, no mixing required.</li> <li>▪ Self-levelling consistency.</li> <li>▪ Accelerated curing.</li> <li>▪ Permanently elastic.</li> <li>▪ Highly durable.</li> <li>▪ Resists aging and weathering.</li> <li>▪ Excellent adhesion, generally primerless.</li> <li>▪ Meets Federal Specification TT-S-00230C, Type 1, Class A.</li> <li>▪ Meets ASTM C920, Type S, Grade P, Class 25.</li> <li>▪ Ministry of Transport Quebec Acceptance.</li> </ul>

<b>Technical Data</b>		
<b>Packaging</b>	300 mL (10.1 US fl. oz) moisture-proof composite cartridge, 12/case. 858 mL (29 US fl. oz) moisture-proof composite cartridge, 12/case.	
<b>Colour</b>	Concrete Grey	
<b>Yield</b>	300 mL (10.1 US fl. oz) cartridge seals 3.7 m (12 ft) of 12.7 mm (1/2 in) x 6.35 mm (1/4 in) joint. 858 mL (29 US fl. oz) cartridge seals 11 m (36 ft) of 12.7 mm (1/2 in) x 6.35 mm (1/4 in) joint.	
<b>Shelf Life</b>	1 year in original unopened packaging. Store between 4 and 35 °C (39 and 95 °F). Condition product between 18 and 24 °C (65 and 75 °F) before using.	
<b>Properties at 23 °C (73 °F) and 50 % R.H.</b>		
<b>Application Temperature</b>	4 to 38 °C (39 to 100 °F)	
<b>Service Range</b>	-40 to 77 °C (-40 to 170 °F)	
<b>Curing Rate</b>	Tack-free time	1 to 2 hours
	Final cure	3 to 5 days
<b>Recovery</b>	> 90 %	
<b>Shore 'A' Hardness ASTM D2240</b>	21 days 40 $\pm$ 5	
<b>Tensile Properties ASTM D412</b>	21 days	
	Tensile strength	1.03 MPa (150 psi)
	Elongation at break	450 %
	Modulus of elasticity 100%	0.76 MPa (110 psi)
<b>Adhesion in Peel ASTM C794</b>	Substrate: Concrete Peel Strength: 4.9 N/mm (28 lb/in) Adhesion Loss: 0 %	
<b>Weathering Resistance</b>	Excellent	
<b>VOC Content</b>	41.7 g/L	
<b>Chemical Resistance</b>	Contact Sika Canada	
<i>Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.</i>		

### HOW TO USE

#### Surface Preparation

All joint surfaces must be clean, sound, dry and frost-free. Joint walls must be free of oils, tar, asphalt, bitumen, grease, paints, coatings, sealers, curing compound residues, and any other foreign matter that might prevent adhesion. Ideally this should be accomplished by suitable mechanical methods. Install bond breaker tape to the bottom of the joint or compressible backer rod into the joint to prevent bond to surfaces other than the joint walls.

**Priming** Priming is not usually necessary. Most substrates only require priming if testing indicates a need or where sealant will be subjected to water immersion after cure. Consult Sikaflex® Primer Product Data Sheet or contact Sika Canada for information on priming.

**Application** Recommended application temperatures: 4 to 38 °C (39 to 100 °F). Sealant pre-conditioned to approximately 21 °C (70 °F) is necessary when working at extremes of temperature. For best performance Sikaflex® Self-Leveling Sealant should be applied into the joint when the joint is at mid-point of its designed expansion and contraction. Cut plastic nozzle on cartridge to desired joint size and puncture airtight seal at base of nozzle. Place cartridge in suitable sized caulking gun, place nozzle at the bottom of the joint and apply sealant into joint slot. Work in one direction and allow sealant to steadily flow and level out as necessary. Tool as required, although minimum tooling is necessary. Joint dimension should allow for 6 mm (1/4 in) minimum and 13 mm (1/2 in) maximum depth of sealant. Proper design is 2:1 width to depth ratio for movement joints. Always use bond breaker tape or closed cell backer rod for support on horizontal joints.

		Depth					
Width	mm (in)	6 (1/4)	13 (1/2)	19 (3/4)	25 (1)	32 (1 1/4)	38 (1 1/2)
	6 (1/4)	24.8					
	13 (1/2)	12.4	6.2				
	19 (3/4)	8.3	4.1	2.8			
	25 (1)	6.2	3.1	2.1	1.6		
	32 (1 1/4)	5.0	2.5	1.7	1.2	1.0	
	38 (1 1/2)	4.1	2.1	1.4	1.0	0.8	0.7

Linear Metres of Sealant per Litre

**Clean Up** Uncured material can be removed from equipment and tools using Sika® Urethane Thinner and Cleaner. Cured material can only be removed manually or mechanically. For removal of uncured material from hands and sensitive surfaces, use Sika® Hand Cleaner towels.

- Limitations**
- The ultimate performance of Sikaflex® Self-Leveling Sealant depends on good joint design, correct joint preparation and proper application
  - Some substrates require priming. Please refer to the Sikaflex® Primers Product Data Sheet or consult with Sika Canada.
  - Although applying sealants over paints, sealers or coatings is not recommended within the industry, where it cannot be avoided, it is always necessary to test for adhesion. It should also be recognized that the existing paint, sealer or coating will dictate bond values and possibly the integrity of a subsequently applied sealant and thus the performance of the joint.
  - Do not apply when joint walls are wet or damp and a moisture-vapour-transmission condition exists from the substrate as this can cause bubbling within the sealant.
  - Maximum depth of sealant must not exceed 13 mm (1/2 in); minimum depth is 6 mm (1/4 in).
  - The depth of sealant in horizontal joints subject to traffic is 13 mm (1/2 in).
  - Maximum expansion and contraction should not exceed 25 % of average joint width.
  - Use opened cartridges the same day.
  - When applying sealant, avoid air-entrapment.
  - Do not tool with detergent or soap solutions.
  - Since system is moisture-cured, permit sufficient exposure to air.
  - Avoid contact with materials or surfaces impregnated with, or containing, oil, asphalt, tar or bituminous substances.
  - Do not apply or cure in the presence of uncured silicone sealants, alcohol and other solvent cleaners.
  - Allow at least 7 days for sealant to cure under stated conditions when using Sikaflex® Self -Leveling sealant in total water immersion situations or prior to painting.
  - When over-coating with water-, oil- and rubber- based paints, compatibility and adhesion tests are essential.
  - Avoid exposure to high levels of chlorine. (maximum continuous level is 5 ppm of chlorine.)

**Health and Safety Information** For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN

The Information, and in particular, the recommendations relating to the application and end-use of Sika 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, within their shelflife. 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: [www.sika.ca](http://www.sika.ca)

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