



PRODUCT DATA SHEET

Sikaflex® Self Leveling Sealant

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

PRODUCT DESCRIPTION

Sikaflex® Self Leveling Sealant is a single component, self-levelling, premium-grade polyurethane sealant with an accelerated curing capacity.

WHERE TO USE

Sikaflex® Self Leveling Sealant is used to seal horizontal expansion joints in concrete and cementitious slabs such as:

- Driveways
- Garages
- Sidewalks
- Balconies
- Pavements
- Terraces
- Warehouses
- Factories
- Civil structures
- Plazas

PRODUCT INFORMATION

Packaging	300 mL (10.1 fl. oz) moisture proof composite cartridge, 12/case 858 mL (29 fl. oz. (858 ml) moisture-proof composite cartridges, 12/case
Colour	<ul style="list-style-type: none">▪ Grey in 300 mL (10.1 fl. oz) and 858 mL (29 fl. oz) cartridges▪ Sandstone only available in 858 mL (29 fl. oz) cartridge format
Shelf Life	12 months in original unopened packaging
Storage Conditions	Store at temperatures between 4 °C and 35 °C (40 °F and 95 °F). Condition product to 18 °C – 24 °C (65 °F – 75 °F) before using.
Air quality and emissions	Contributes towards satisfying LEED® v4 EQ Credit - Low-Emitting Materials
Green building	For LEED® projects, contact Sika Canada for support.

CHARACTERISTICS / ADVANTAGES

- 1-component, no mixing required
- Self-levelling, pourable
- Accelerated curing
- Permanently elastic
- High durability
- Resists aging, weathering
- Excellent adhesion
- Convenient, easy-to-use packaging
- Paintable with water-, oil- or rubber-based paints

APPROVALS / CERTIFICATES

- Meets Federal Specification TT-S-00230C, Type 1, Class A
- Meets ASTM C920, Type S, Grade P, Class 25

TECHNICAL INFORMATION

Shore A Hardness	40 ± 5 (21 days)	(ASTM D2240)						
Tensile Strength	1 MPa (150 psi) (21 days)	(ASTM D412)						
Elongation at Break	450 % (21 days)	(ASTM D412)						
Elastic Recovery	> 90 %							
Movement Capability	± 25 %							
Resistance to Weathering	Excellent							
Service Temperature	-40 °C to +76 °C (-40 °F to +170 °F)							
Adhesion in Peel	<table border="1"> <thead> <tr> <th>Substrate</th> <th>Peel Strength</th> <th>Adhesion Loss</th> </tr> </thead> <tbody> <tr> <td>Concrete</td> <td>> 30 pli</td> <td>0 %</td> </tr> </tbody> </table>	Substrate	Peel Strength	Adhesion Loss	Concrete	> 30 pli	0 %	(ASTM C794)
Substrate	Peel Strength	Adhesion Loss						
Concrete	> 30 pli	0 %						
Tensile Stress at Specified Elongation	0.7 MPa at 100 % (110 psi) (21 days)	(ASTM D412)						

APPLICATION INFORMATION

Yield

300 mL (10.1 fl. oz) Cartridge: ~Yield in Linear Feet

	6 mm (1/4 in) Depth	9 mm (3/8 in) Depth	13 mm (1/2 in) Depth
Width			
6 mm (1/4 in)	24.3		
9 mm (3/8 in)	16.2	10.8	
13 mm (1/2 in)	12.1	8.1	6.1
19 mm (3/4 in)	8.1	5.4	4.0
25 mm (1 in)			3.0
32 mm (1-1/4 in)			2.4
38 mm (1-1/2 in)			2.0

858 mL (29 fl. oz) Cartridge: ~Yield in Linear Feet

	6 mm (1/4 in) Depth	9 mm (3/8 in) Depth	13 mm (1/2 in) Depth
Width			
6 mm (1/4 in)	69.8		
9 mm (3/8 in)	46.5	31.0	
13 mm (1/2 in)	34.9	23.3	17.4
19 mm (3/4 in)	23.2	15.5	11.6
25 mm (1 in)			8.7
32 mm (1-1/4 in)			7.0
38 mm (1-1/2 in)			5.8

Ambient Air Temperature	Minimum: 4 °C (40 °F) / Maximum: 38 °C (100 °F)
Substrate Temperature	Minimum: 4 °C (40 °F) / Maximum: 38 °C (100 °F)
Curing Time	Final cure: 3 to 5 days
Tack-free time	1 to 2 hours

BASIS OF PRODUCT DATA

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.

Product properties tested at 23 °C (73 °F) and 50 % R.H. unless stated otherwise.

LIMITATIONS

The ultimate performance of Sikaflex® Self Leveling Sealant will depend on good joint design and proper application with joint surfaces properly prepared.

- Sikaflex® Self Leveling Sealant is not designed for application on sloped surfaces.
- Allow one (1) week cure at standard conditions when using Sikaflex® Self Leveling Sealant in total water immersion and prior to painting.
- Maximum exposure level of chlorine: 5 ppm
- In joints subject to movement - maximum depth of sealant must not exceed 13 mm (1/2 in); minimum depth is 6 mm (1/4 in)
- Minimum depth of sealant for horizontal joints subject to traffic is 13 mm (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-vapour transmission condition exists from the substrate as this can cause bubbling within the sealant
- To avoid bubbling, do not apply when ambient air and substrate temperatures exceed 38 °C (100 °F). In extreme summertime conditions, preferably install sealant when ambient air and substrate temperatures are falling
- Use opened cartridges the same day
- Do not use in contact with bituminous / asphaltic materials
- When overcoating with water-, oil- or rubber-based paints, compatibility and adhesion testing of mock-up installations is essential
- Overcoating: do not use silicone-based paints or paints with a high solvent content. Avoid solvent-based and alcohol-based primers, stains, sealers and coatings

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

Product Data Sheet
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APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Joint wall surfaces must be clean, structurally sound, and frost-free. Joint walls must be free of oils, grease, curing compound residues, and any other foreign matter that might prevent bond.

SUBSTRATE PREPARATION

Substrate preparation should be accomplished preferably by mechanical means. All surfaces must be clean before Sikaflex® Self Leveling Sealant application. Bond breaker tape or backer rod must be used in bottom of joint to prevent three-sided bond. Proper design is 2:1 width to depth ratio.

Note: Priming is not usually necessary. Substrates only require priming if testing indicates a need. Consult Sikaflex® Primer Product Data Sheet or Contact Sika Canada Technical Service for additional information on priming.

APPLICATION METHOD / TOOLS

Application recommendations

Recommended application temperatures: 4 °C to 38 °C (40 °F to 100 °F). Condition sealant to 18 °C – 24 °C (65 °F – 75 °F) before using. Sikaflex® Self Leveling Sealant should be applied into joint when joint slot is at mid-point of its designed expansion and contraction.

Application

Cut plastic tip to desired size and puncture airtight seal at base of tip. Apply Sikaflex® Self Leveling Sealant into joint slot in one direction and allow sealant to flow and level out as necessary. Keeping the nozzle immersed deep in the sealant, continue applying with a steady flow of sealant preceding nozzle to avoid air entrapment. Avoid overlapping of material in order to prevent air entrapment in the material. Tool as required, although minimum tooling is necessary. Maximum sealant depth is 13 mm (1/2 in) and width is 19 – 25 mm (1 – 3/4 in). Minimum depth is 6 mm (1/4 in) and width is 6 mm (1/4 in).

CLEAN UP

Uncured material can be removed from equipment and tools using Sika® Cleaning Wipes or a solvent, such as xylene. Strictly follow solvent manufacturer's warnings and instructions for use. Cured material can only be removed manually or mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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LEGAL NOTES

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 in accordance with Sika's recommendations. 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

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