BUILDING TRUST
CONSTRUIRE LA CONFIANCE

PRODUCT DATA SHEET

Sikaflex® Concrete Fix

ONE-COMPONENT, POLYURETHANE-BASED ELASTOMERIC SEALANT FOR CRACKS, GAPS AND JOINTS

PRODUCT DESCRIPTION

Sikaflex® Concrete Fix is a moisture-cured, one-part, non-sag and elastomeric polyurethane sealant.

WHERE TO USE

- Weatherproofing joints, cracks and gaps in concrete, brickwork, blockwork, masonry, stucco and metal
- For all types of joints and cracks where maximum depth of sealant will not exceed 13 mm (½ in)
- Suitable for vertical and horizontal applications
- As an elastic sealant between materials with dissimilar rates of expansion and contraction
- Joints in walls, floors, balconies and around window or door frames
- Waterproofing of expansion joints and joints or intersections in roofs

CHARACTERISTICS / ADVANTAGES

- Excellent adhesion – bonds to most construction materials without a primer
- High elasticity – cures to a durable, flexible consistency with exceptional cut and tear-resistance
- Stress relaxation to prevent splitting at edges
- Capable of ±25 % joint movement
- Non-staining, protecting architectural and decorative materials from spoiling
- Urethane-based; suggested by EPA for radon reduction
- Paintable with water-, oil- and rubber-based paints
- Excellent resistance to aging, weathering

ENVIRONMENTAL INFORMATION

Conformity with LEED®v4 EQ Credit: Low-Emitting Materials

APPROVALS / CERTIFICATES

- Meets Federal specification TT-S-00230C, Type II
- Meets ASTM C920, Type S, Grade NS

PRODUCT INFORMATION

Packaging	300 mL (10.1 US fl. oz) moisture-proof and disposable composite cartridges, 12/case
Colour	Limestone
Shelf Life	12 months in original unopened packaging.
Storage Conditions	Store between 4 to 35 °C (40 to 95 °F). Condition material between 18 to 24 °C (65 to 75 °F) before using.

TECHNICAL INFORMATION

Shore A Hardness	Meets ASTM C920	
Adhesion in Peel	Concrete	Meets ASTM C920
	Aluminum	Meets ASTM C920
	Glass	Meets ASTM C920
Chemical Resistance	Good resistance to water, diluted acids, and diluted alkalines. Consult Sika Canada for specific data.	
Resistance to Weathering	Excellent	
Service Temperature	-40 to 77 °C (-40 to 170 °F)	

APPLICATION INFORMATION

Yield	One (1) cartridge seals 3.72 lin. m (12.2 lin. ft) of a 13 mm (½ in) wide by 6 mm (¼ in) deep joint.	
Ambient Air Temperature	4 to 38 °C (40 to 100 °F)	
Substrate Temperature	4 to 38 °C (40 to 100 °F). Sealant should be installed when joint is at mid-point of its designed expansion and contraction.	
Curing Rate	Tack-free time	Meets ASTM C920
	Final cure	7 days

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

LIMITATIONS

- The ultimate performance of Sikaflex® Concrete Fix depends on good joint design and proper application with joint surfaces properly prepared.
- Maximum depth of sealant must not exceed 13 mm (½ in); minimum depth is 6 mm (¼ in).
- The depth of sealant in horizontal joints subject to traffic is 13 mm (½ in).
- Maximum expansion and contraction should not exceed 25 % of average joint width.
- Do not apply when moisture-vapour-transmission condition exists from the substrate as this can cause bubbling within the sealant.
- 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.
- Do not cure in the presence of curing silicone sealants, alcohol or other solvent cleaners.
- Avoid contact with tar, oil or bituminous materials as these may cause staining and deterioration.
- Allow 1-week cure at standard conditions when using Sikaflex® Concrete Fix in total water immersion situations and prior to painting.
- When over-coating with water-, oil- and rubber-based paints, compatibility and adhesion testing is essential.
- Avoid exposure to high levels of chlorine. (Maximum continuous level is 5 ppm of chlorine.)

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.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Clean all contact surfaces within joints, cracks or gaps being sealed. Surfaces must be sound, clean, dry, and free from frost, oil and grease and any contaminants. Install bond breaker tape or backer rod to prevent bond at the rear face of joints. Where cracks are to be sealed they must be ground out and blown free of all friable material to establish suitably wide and sound locations.

Priming
Priming is not usually necessary. Most substrates only require priming if testing indicates a need or where the sealant will be subjected to water immersion after cure. Consult Sikaflex® Primers Product Data Sheet for general

guidance as to what substrates typically require priming or contact Sika Canada for specific information on priming.

APPLICATION METHOD / TOOLS

Recommended application temperatures: 4 to 38 °C (40 to 100 °F). For cold weather application, condition units at approximately 21 °C (70 °F). For best performance, Sikaflex® Concrete Fix should be gunned into joints when they are at mid-point of their designed expansion and contraction. Joint dimension should allow for 6 mm (¼ in) minimum and 13 mm (½ in) maximum thickness for sealant. Proper design is 2:1 width to depth ratio.

For use in horizontal joints in traffic areas, the absolute minimum depth of the sealant is 13 mm (½ in) and closed cell backer rod is recommended. Place nozzle of gun into bottom of the joint and fill entire joint. Keep the nozzle in the sealant, continue on with a steady flow of sealant preceding the nozzle to avoid air entrapment. Avoid overlapping of sealant to eliminate entrapment of air. Tool as necessary, dry or with clean water.

CLEAN UP

Uncured material can be removed with approved solvent. Cured material can only be removed 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.

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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