

PRODUCT DATA SHEET

Sikaflex® + Concrete Fix

One-component, non-sag, polyurethane concrete crack repair sealant

PRODUCT DESCRIPTION

Sikaflex® + Concrete Fix is a moisture-cured, 1-component, polyurethane-based, non-sag elastomeric sealant. Meets Federal specification TT-S-00230C, Type II, Class A. Meets ASTM C-920, Type S, Grade NS, Class 25.

USES

- Designed for all types of joints and cracks where maximum width of sealant will not exceed 1 in.
- Suitable for vertical and horizontal joints; readily placeable at 40 °F (4 °C).
- Has many applications as an elastic sealant between materials with dissimilar coefficients of expansion.

Ideal for:

- Weatherproofing of joints, cracks and gaps in concrete & masonry structures
 - Driveways / Walkways / Patios / Slabs / Foundations Walls
- Joints in walls, floors, balconies, around window or door frames

CHARACTERISTICS / ADVANTAGES

- ±35 % joint movement
- Remains permanently elastic
- Paintable once cured
- Excellent resistance to aging & weathering
- Cures to a tough, durable, flexible consistency with exceptional cut & tear resistance
- Stress relaxation.
- Excellent adhesion – bonds to most construction materials without a primer
- Can be applied to new concrete 24 hours after cure & wet concrete 1 hour after the water source has stopped
- Non-staining
- Urethane-based; suggested by EPA for radon reduction

PRODUCT INFORMATION

Chemical Base	Polyurethane
Packaging	10.1 fl. oz. (299 ml), moisture-proof composite cartridges, 12/case
Color	Limestone
Shelf Life	15 months in original unopened packaging
Storage Conditions	Store at 40 to 95 °F (4 to 35 °C). Condition material to 65 to 75 °F (18 to 24 °C) before using

TECHNICAL INFORMATION

Shore Hardness	40±5	(ASTM C-661) Tested at: 73 °F (23 °C) 50 % R.H.
Chemical Resistance	Good resistance to water, diluted acids, and diluted alkalines. Consult Technical Service for specific data	
Resistance to Weathering	Excellent	
Service Temperature	-40 to 170 °F (-40 to 77 °C)	

APPLICATION INFORMATION

Coverage	10.1 oz (299 ml) Cartridge: Yield in Linear Feet			
		Depth 1/4"	Depth 3/8"	Depth 1/2"
	Width			
	1/4"	24.3		
	3/8"	16.2	10.8	
	1/2"	12.1	8.1	6.1
	3/4"	8.1	5.4	4.0
	1"			3.0
	1-1/4"			2.4
	1-1/2"			2.0
Ambient Air Temperature	40 to 100 °F (4 to 38 °C). Sealant should be installed when joint is at midrange of its anticipated movement			
Substrate Temperature	40 to 100 °F (4 to 38 °C). Sealant should be installed when joint is at midrange of its anticipated movement			
Cure Time	Final cure: 5–7 days			
Tack Free Time	3–6 hours			

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

LIMITATIONS

- Allow 1-week cure at standard conditions when using Sikaflex® + Concrete Fix in total water immersion and prior to painting.
- When overcoating with water-based, oil-based or rubber-based paints, compatibility and adhesion testing of mock-up installations is essential.
- Avoid exposure to high levels of chlorine. (Maximum continuous level is 5 ppm of chlorine.)
- Maximum depth of sealant must not exceed 1/2 in. (12.7 mm); minimum depth is 1/4 in. (6.3 mm).
- Maximum width of sealant must not exceed 1 in. (25.4 mm).
- Maximum expansion and contraction should not exceed 35 % of average joint width.
- Do not cure in the presence of curing silicone sealants.
- Avoid contact with alcohol and other solvent cleaners during cure.
- When using on green/new concrete, concrete must be good quality and strength, sealing poor or low strength concrete 24 hours after may impact the ability of the sealant to gain proper adhesion.
- On wet concrete, water source must be stopped 1 hour before application and concrete must be free of standing water.
- Do not apply when moisture-vapor-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 100o F (38o C). In extreme summertime conditions, preferably install sealant when ambient air and substrate temperatures are falling.
- Use opened cartridges the same day.
- When applying sealant, avoid air-entrapment.
- Since system is moisture-cured, permit sufficient exposure to air.
- The ultimate performance of Sikaflex® + Concrete Fix

depends on good joint design and proper application with joint surfaces properly prepared.

- Do not tool with detergent or soap solutions.
- Do not use paints which are silicone based or have a high solvent content. Avoid solvent-based and alcohol-based primers, stains, sealers and coatings.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Clean all surfaces. Cracks/Joints 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.

APPLICATION METHOD / TOOLS

Recommended application temperatures: 40 to 100 °F (4 to 38 °C). For cold weather application, condition units at approximately 70 °F (21 °C); remove prior to using. For best performance, Sikaflex® + Concrete Fix should be gunned into joint when joint slot is at mid-point of its designed expansion and contraction. 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 required. Maximum sealant depth is 1/2 in. (12.7 mm) and width is 1 in. (25.4 mm). Minimum depth is 1/4 (6.3 mm) and width is 1/4 in. (6.3 mm). 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 1/2 in. (12.7 mm). Always use bond breaker tape or closed cell backer rod for support on horizontal joints. Tool as necessary, with dry sealant spatula.

For green/new concrete application, 24 hours after concrete has cured. Concrete must be of good quality and strength. Note: Curing will vary depending on temperature and humidity.

- In formed joints, forms must be removed 6 hours before applying sealant.
- In control joints, concrete must be cut 8 hours before applying sealant.

For wet concrete application, water source must be stopped 1 hour before application and concrete must be free of standing water.

CLEANING OF TOOLS

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.

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BUILDING TRUST



OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

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

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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