

PRODUCT DATA SHEET

Sikaflex® + Mortar Fix

One-component, Textured, POLYURETHANE SEALANT FOR SEALING MORTAR CRACKS/JOINTS

PRODUCT DESCRIPTION

Sikaflex® + Mortar 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.

USES

- Designed for all types of joints where maximum depth of sealant will not exceed 1/2 in. (12.7 mm).
- 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 between brickwork, blockwork, masonry, concrete or metal frames
 - Joints in walls, balconies, around window or door frames
 - Expansion joints

CHARACTERISTICS / ADVANTAGES

- Excellent adhesion – bonds to most construction materials without a primer.
- Textured appearance blends well to rough or stucco type surfaces.
- Hides imperfections from tooling that a smooth sealant does not.
- Excellent resistance to aging, weathering
- Non-staining
- High elasticity – cures to a tough, durable, flexible consistency with exceptional cut and tear resistance.
- Stress relaxation
- Urethane-based; suggested by EPA for radon reduction
- Paintable with water-based, oil-based or rubber-based paints
- Can be applied to green/new concrete 24 hours after cure
- Can be applied on concrete that has been wet 1 hour after water source has stopped

PRODUCT INFORMATION

Packaging	Disposable 10.1 fl. oz. (299 ml), moisture-proof composite cartridges, 12/case
Color	Limestone
Shelf Life	12 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 A Hardness

35±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 70 °F (-40 to 77 °C)

APPLICATION INFORMATION

Coverage

10.1 oz (299 ml) Cartridge: Yield in Linear Feet

	1/4" Depth	3/8" Depth	1/2" Depth
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 to 7 days

Tack Free Time

3 to 6 hours

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Clean all surfaces. Cracks/Joints must be sound, clean, dry, frost-free, and free of oil and grease. Any loose material must be removed prior to sealant installation. 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® + Mortar Fix should be gunned into joint when joint slot is at mid-point of its designed expansion and contraction. Maximum sealant depth is 1/2 in. (12.7 mm) and width is 1 in. (25.4 mm). Minimum depth is 1/4 in. (6.3 mm) and width is 1/4 in. (6.3 mm). 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.

Joint dimension should allow for 1/4 in. (6.3 mm) minimum and 1/2 in. (12.7 mm) maximum thickness for sealant. Proper design is 2:1 width to depth ratio.

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.

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.

LIMITATIONS

- Allow 1 week cure at standard conditions when using

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- Sikaflex® + Mortar 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 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.
 - 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 100° F (38° 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® + Mortar 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.

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.

OTHER RESTRICTIONS

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.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

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 1-800-933-7452. 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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