

PRODUCT DATA SHEET

SIKAFLEX[®]-1a

Sikaflex[®]-1a is a premium-grade, high-performance, moisture-cured, one-component polyurethane-based, non-sag elastomeric sealant used in certain Sarnafil[®] and Sikaplan[®] roofing or waterproofing system details. Typical applications include wall, curb and drain terminations. It is also used as a sealant at pipe penetrations and under certain metal flashings. Sikaflex-1a can be used as a pourable sealer pocket filler.

PRODUCT INFORMATION

USES

For Sarnafil and Sikaplan roofing and waterproofing system details.

AREAS OF APPLICATION

- Wall, curb and drain terminations
- Pipe penetrations
- Certain metal flashings
- Pourable sealer pocket filler

FEATURES / BENEFITS

- Bonds well to primed Sika PVC membranes and to common building materials
- High elasticity, cures to a tough, durable, flexible consistency with exceptional cut and tear resistance
- Easy to apply from the cartridge and has excellent workability characteristics
- Excellent resistance to aging and weathering
- Odorless, non-staining

TESTS

APPROVAL / STANDARDS

- Meets Federal Specification TT-S-0023C, Type II, Class A
- Meets ASTM C-920, Type S, Grade NS, Class 35
- Certified to the NSF/ANSI Standard 61 for potable water

PRODUCT DATA

FORM

COMPOSITION

Sealant

COLOR

White or Limestone

VOC CONTENT

40 g/l

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PACKAGING

10.1 fluid ounce (300 ml) disposable cartridge (24 cartridges per case),
25 lbs (11.3 kg) per case

STORAGE**STORAGE CONDITIONS**

Store at 40°F-90°F (4°C-35°C) in a dry, well-ventilated area. Condition material to 65°F-75°F (18°C-24°C) before using.

SHELF LIFE

12 months in an unopened cartridge

TECHNICAL DATA**TYPICAL PHYSICAL PROPERTIES***

Shelf Life: 12 months

Service Range: -40°F (-40°C) to 170°F (77°C)

Curing Rate:

Tack-free Time: 4 hours

Tack-free to Touch: 3 hours

Final Cure: 4 to 7 days

Tear Strength, ASTM D624: 55 lb./in. (9.63 N/mm)

Shore A Hardness, ASTM D2240: 40±5 @ 21 days

Tensile Properties, ASTM D412:

Tensile Stress @ 21 days: 175 psi (1.21 MPa)

Elongation at Break: 550%

Chemical Resistance: Good resistance to water, diluted acids, and diluted alkalines

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

SYSTEM INFORMATION**APPLICATION INSTRUCTIONS****SURFACE PREPARATION**

Clean all surfaces. Surfaces must be sound, clean, dry, frost-free, and free of oil and grease. Residues and any other foreign matter must be thoroughly removed. If rust is present on the penetration it must be wire brushed down to clean metal. A roughened surface will enhance the bond.

APPLICATION METHOD / TOOLS

The recommended application temperature for Sikaflex-1a is between 40°F (4°C) and 100°F (38°C). For cold weather applications, condition cartridges at approximately 70°F (21°C) and maintain that temperature until just prior to use.

Do not apply over damp surfaces as this will affect adhesion and may lead to bubbling within the sealant.

Whenever the Sikaflex-1a will come in contact with PVC membrane, solvent wipe the membrane and prime with Sarnacol 2170. This includes the walls of the pourable sealer pocket and the PVC membrane around the penetration below the pocket.

When used as a pourable sealer pocket filler, dispense the Sikaflex-1a into the pocket and tool it with a paint stirrer to work out entrapped air. Fill

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the pocket completely without using any filler material. Mound the Sikaflex-1a sufficiently to prevent water from collecting and ponding in the pocket. There must be a minimum of 1 inch (25 mm) between the walls of the pocket and the penetration to allow the sealant to be worked into any gaps or voids.

Use with adequate ventilation. Sikaflex-1a is easy to apply with conventional caulking equipment. Avoid air entrapment when applying sealant. Do not tool with detergent or soap solutions. Avoid contact with alcohol and other solvent cleaners during cure.

Use open cartridges the same day.

COVERAGE

15 linear feet (4.6 m) of 3/8 in. (9.5 mm) bead per cartridge.

PRODUCT LIMITATIONS

LIMITATIONS

- Since system is moisture-cured, permit sufficient exposure to air.
 - White color tends to yellow slightly when exposed to ultraviolet rays.
 - Light colors can yellow if exposed to direct gas fired heating element.
 - Do not use in contact with bituminous/asphaltic materials.
 - Do not apply when a moisture vapor transmission condition exists from the substrate as this can cause bubbling within the sealant.
 - Do not tool with detergent or soap solutions.
 - Avoid contact with alcohol and other solvent cleaners during cure.
 - Avoid exposure to high levels of chlorine.
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AVAILABILITY

From Authorized Applicators when used within Sarnafil or Sikaplan roofing and waterproofing systems.

MAINTENANCE

Standard maintenance of roofs should include regular inspection of flashings, drains and termination sealants as well as pourable sealer pockets at least twice a year and after each storm.

WARRANTY

Sika will replace defective Sikaflex-1a material provided the defect is identified by the Sika Authorized Applicator and acknowledged by Sika during the time of original installation and application. Maintenance of this sealant or of any other sealant after the original installation and application is not covered by the Sika Corporation Warrantees.

LEGAL NOTES

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Sika warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor.

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