



## PRODUCT DATA SHEET

# Sikaplan® Single-Step Membrane Adhesive

SIKAPLAN SINGLE-STEP MEMBRANE ADHESIVE IS A WATER-BASED ADHESIVE

### PRODUCT DESCRIPTION

Sikaplan® Single-Step Membrane Adhesive is an emulsion adhesive used for Sikaplan Adhered roofing systems. Sikaplan Single-Step Membrane Adhesive is formulated for adhering Sikaplan membranes as a wet lay in to clean, dry, water absorbent, horizontal roof surfaces with slopes up to 2/12 (10°). Consult latest technical bulletins or contact Sika-Roofing Technical Department for steep slope or other methods of application.

### USES

Used to adhere Sikaplan roof membranes and flashings to approved substrates.

#### Areas of Application

- Isocyanurate organic facer
- Isocyanurate glass facer
- DensDeck® Prime
- Smooth plywood

### CHARACTERISTICS / ADVANTAGES

- Fast one side wet lay in

### APPROVALS / STANDARDS

- FM Global
- Underwriters laboratories
- Miami-Dade
- Florida Building Code

## PRODUCT INFORMATION

Chemical Base	Emulsion liquid
Packaging	5 gal (18.9 L) pails, 45 lbs (20.4 kg) per pail, 48 pails per pallet
Appearance / Color	Tan
Shelf Life	12 months if stored properly in original unopened, sealed and undamaged packaging.
Storage Conditions	Store in tightly closed containers in temperatures between 40° F (5° C) and 99° F (37° C).
Volatile organic compound (VOC) content	240 g/L

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

All work surfaces should be clean, dry, free of dirt, dust, debris, oils and other contaminants.

### MIXING

Mix well before use with a drill and mixing blade.

### APPLICATION

#### General Application:

Sikaplan Single-Step Membrane Adhesive is designed for a "wet lay in". Care must be taken to ensure the adhesive has not skinned over or dried before the membrane is laid in place. This is especially important during applications at high temperatures. Adjustments may be needed in the application technique to ensure a wet lay in. It is recommended that only 3 - 4 ft (0.9 - 1.2 m) of adhesive is coated out ahead of the membrane to prevent dry laid membrane. Clean any wet adhesive from the seams before welding. Roll the membrane into the adhesive while it is still wet being careful to avoid wrinkles. Immediately begin brooming to work out any air bubbles starting at the center of the membrane and brooming to the sides with a medium bristle push broom. After brooming, roll the membrane in two directions with a minimum 100 lb (45 kg) steel roller.

#### Roller Application:

Apply the adhesive only to the substrate and not the membrane using a 3/8 - 1/2" (9.5 mm - 12.7 mm) medium nap roller up to 18" (45.7 cm) wide. The adhesive is poured onto the substrate in ribbons followed by rolling and spreading evenly.

#### Spray Application:

The airless sprayer must be able to generate pressure up to 3000 PSI (207 Bar) and should be able to deliver a minimum of 1.5 GPM (5.6 L/min). Larger spray units will allow for longer hose runs and increased production. The hose should be a minimum of 1/2" (12.7 mm) diameter with a 3/8" (9.5 mm) whip 10 ft (3.1 m) long leading up to the gun. Sikaplan Single-Step Membrane Adhesive has a high viscosity and may clog the filters of the airless sprayer. It is recommended that all filters in the spray rig and spray gun be removed and cleaned at the end of each day. Use a minimum tip size of 0.027" - 0.035" (0.68 mm - 0.88 mm), however the tip size can be increased to 0.045" (1.1 mm) for greater throughput. Apply the adhesive using a fan pattern determined by the user. A wide fan pattern will cover more area faster but may be more difficult to control and may be more prone to overspray. Generally a fan pattern of 10 - 12" (25.4 - 30.5 cm) wide held 12" (30.5 cm) off of the substrate is recommended.

#### Coverage

The coverage rate may vary depending on substrate porosity, ambient temperature, and experience. The typical coverage rate for the following application methods are:

Roller:

- 100 ft<sup>2</sup>/gal (2.5 m<sup>2</sup>/L)

Spray:

- 133 ft<sup>2</sup>/gal (3.3 m<sup>2</sup>/L)
- 100 ft<sup>2</sup>/gal (2.5 m<sup>2</sup>/L) for concrete and Glass Faced Gypsum Boards

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October 2019, Version 01.01

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## MAINTENANCE

Standard maintenance of Sarnafil® or Sikaplan® systems should include regular inspection of flashings, drains and termination sealants at least twice a year and after each storm.

## AVAILABILITY/WARRANTY

### Availability

From Sika Corporation – Roofing Authorized Applicators for use within Sarnafil or Sikaplan systems.

### Warranty

Upon successful completion of the installed roof by the Sika Authorized Applicator, Sika Corporation will provide a warranty to the Building Owner via the Sika Authorized Applicator

## LIMITATIONS

Precautions should be taken to prevent odors and/or vapors from entering the building/structure, including but not limited to turning off and sealing air intake vents or other means of ingress for odors and/or vapors into the building/structure during product application and cure.

- Do not apply in wet weather or to a wet surface.
- The minimum product temperature before application should be 72° F (22° C).
- The minimum ambient and surface temperatures should be 40° F (4° C) and rising during application and drying time.
- Open time varies depending on weather and temperature conditions.
- Do not allow the adhesive to skin over.
- Eliminate uneven surfaces to ensure positive contact between the membrane and the substrate.

Unused adhesive can be saved for use at a later date by resealing the pail cover.

## 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

See Legal Disclaimer.

## 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](http://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.

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 the product’s shelf life. User determines suitability of product for intended use and assumes all risks. User’s and/or buyer’s sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling 1-800-933-7452.

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SikaplanSingle-StepMembraneAdhesive-en-US-(10-2019)-1-1.pdf

