



PRODUCT DATA SHEET

Sarnacol®-2121 (US)

WATER-BASED ADHESIVE

PRODUCT DESCRIPTION

Sarnacol®-2121 (US) is a water-based dispersion adhesive used for Sarnafil® or Sikaplan® Adhered roofing systems.

WHERE TO USE

Sarnacol®-2121 (US) is specially formulated for adhering 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 Canada for steep slope or other methods of application.

Areas of Application

Bareback Membrane Substrates

- Isocyanurate organic faced
- Isocyanurate glass faced
- Smooth plywood
- Dens-Deck®
- Dens-Deck Prime®

Feltback Membrane Substrates

- Isocyanurate organic faced
- Isocyanurate glass faced
- Smooth plywood
- Concrete deck
- Cellular concrete
- Dens-Deck®
- Dens-Deck Prime®
- Securock® Gypsum-Fiber

CHARACTERISTICS / ADVANTAGES

- Fast one side wet lay in

ENVIRONMENTAL INFORMATION

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

APPROVALS / CERTIFICATES

- FM Global
- Underwriters Laboratories
- Underwriters Laboratories Canada
- Miami-Dade
- Florida Building Code
- ICC Code Compliance – ESR 1157
- CSA-A123.21

PRODUCT INFORMATION

Composition / Manufacturing	Liquid
Packaging	18.9 L (5 US gal.) pails, 20.4 kg (45 lb) per pail, 48 pails per pallet
Appearance / Colour	Cream

Shelf Life	12 months if stored properly in original unopened, sealed and undamaged packaging
Storage Conditions	Store in tightly closed containers in temperatures between 5 °C (40 °F) and 37 °C (99 °F)
Volatile organic compound (VOC) content	240 g/L

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.

OTHER DOCUMENTS

Availability

Sarnacol®-2121 (US) is available directly from Sika Canada Authorized Applicators when used within a Sika® Sarnafil® Roofing or Waterproofing System. Contact Sika Canada or visit our website at www.sika.ca for further information.

Warranty

Upon successful completion of the installed roof by the Sika Canada Authorized Applicator, Sika Canada can provide a Warranty to the Building Owner via the Authorized Applicator.

LIMITATIONS

- Precautions should be taken to prevent odours and/or vapours from entering the building/structure, including but not limited to turning off and sealing air intake vents or other means of ingress for odours and/or vapours 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 22 °C (72 °F).
- The minimum ambient and surface temperatures should be 4 °C (40 °F) 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.
- Sika Canada provides technical support. Technical staff is available to advise applicators as to the proper installation method.

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

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

APPLICATION

General Application:

Sarnacol®-2121 (US) is designed for “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 0.9 m – 1.2 m (3 ft – 4 ft) 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 45 kg (100 lb) steel roller.

Roller Application:

Apply the adhesive only to the substrate and not the membrane using a 9.5 mm –12.7 mm (3/8 in – 1/2 in) medium nap roller up to 45.7 cm (18 in) 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 207 Bar (3000 PSI) and should be able to deliver a minimum of 5.6 L/min (1.5 GPM). Larger spray units will allow for longer hose runs and increased production. The hose should be a minimum of 12.7 mm (½ in) diameter with a 9.5 mm (3/8 in) whip 3.1 m (10 ft) long leading up to the gun. Sarnacol®-2121 (US) 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 0.68 mm – 0.88 mm (0.027 in – 0.035 in). However, the tip size can be increased to 1.1 mm (0.045 in) 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 25 cm – 30 cm (10 in – 12 in) wide held 30 cm (12 in) 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:

- 2.5 m²/L (100 ft²/US gal.)

Spray:

- 3.3 m²/L (133 ft²/US gal.)
- 2.5 m²/L (100 ft²/US gal.) for concrete and DensDeck®

MAINTENANCE

As a prudent preventative measure, Sika Canada recommends that the Owner or that the Owner's designated representative inspect the installed roof system for damage, flashings, plugged drains, weathered sealants, etc. at least twice a year and after each storm.

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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Product Data Sheet

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