

PRODUCT DATA SHEET

Sarnacol® AD Adhesive

Two-component foamable polyurethane adhesive

PRODUCT DESCRIPTION

Sarnacol® AD Adhesive is a two-component, low-rise, solvent-free polyurethane foamable adhesive that contains no high Global Warming Potential (GWP) blowing agents.

USES

Used to bond insulations, cover boards, Sarnafil® and Sikaplan® Universal feltback membranes to approved substrates.

AREAS OF APPLICATION

Approved Substrates

- Concrete
- Light Weight Insulated Concrete
- Cementitious Wood Fiber
- Gypsum
- Steel
- Mineral Surface Asphalt
- Aged Smooth Asphalt
- Approved Sika Vapor Retarders
- Approved Sika Base Sheets

Approved Insulations and Cover Boards

- Polyisocyanurate Insulations
- Polystyrene Insulations
- Mineral Wool
- High Density Polyisocyanurate Roof Boards
- Gypsum Cover Boards

CHARACTERISTICS / ADVANTAGES

- Low VOC
- Solvent-free formula
- Rapid application with appropriate dispensing tools

APPROVALS / STANDARDS

- FM Global
- Underwriters Laboratories

PRODUCT INFORMATION

Chemical Base	Liquid
Packaging	10 gal (37.8 L) Canister set: 5 gal (18.9 L) 49 lb (22.2 kg) of Part 1 and 5 gal (18.9 L) 43 lb (19.5 kg) of Part 2, 18 Canister sets per pallet
Color	Part 1: Amber Part 2: Clear
Appearance / Color	The foamed adhesive will appear as a homogeneous light amber color with no streaking or marbling.
Shelf Life	12 months if stored properly in original unopened, sealed and undamaged packaging.
Storage Conditions	Store canisters between 60°F (16°C) and 90°F (32°C). Do not store in direct sunlight. Protect from freezing at all times. Store boxes with valve side up.
Volatile organic compound (VOC) content	<50 g/L (Part 1 + 2 Combined)

APPLICATION INFORMATION

Coverage	Ribbon application: 3500 ft ² (325 m ²) per set depending on surface roughness and absorption rate of the substrate. Rate is based on an application pattern of 4 ribbons, 1" to 1.5" (25 to 38 mm) beads, spaced 12" (30 cm) o.c. per 4 ft x 4 ft (1.2 m x 1.2 m) insulation board. Spatter application: 2400 ft ² (222 m ²) per set depending on surface roughness and absorption rate of the substrate.
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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.

USES

- Do not apply in wet weather or to a wet surface.
- Adhesive should be stored at 70°F (21°C) or above for a minimum of 24 hours prior to use and remain in a warm storage area until ready for use on the rooftop. Storing the adhesive below the recommended application temperature range prior to use can have a negative effect on product performance which may include reducing the expected coverage rates of the adhesive, delayed or extended reaction and set up times and in some cases can alter the mix of the two components.
- The minimum ambient and substrate surface temperatures should be 40°F (4°C) and rising.
- Not recommended for use with insulation boards larger than 4 ft x 4 ft (1.2 m x 1.2 m)
- All boards must lay flat upon roof surface. Do not use warped or curled insulation boards.

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 in compliance with Sika requirements, Sika Corporation will provide a warranty to the Building Owner via the Sika Authorized Applicator.

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

NOTES ON INSTALLATION

Remove the adhesive canisters from the boxes, place the canisters on a firm and level surface and rock the canister 20-30 times to insure the material is properly mixed. Return the canisters to their appropriate boxes. Locate and remove the knock outs for hose access. Always insure that the Part A and Part B containers are always hooked to the same dispensing holders or hoses (i.e. do not reverse the dispenser holders and hoses between Part A and Part B). All valves on the dispensing unit must be completely opened so a 1:1 ratio is achieved when moving the adhesive through the disposable mix tip and onto the substrate in a semi-liquid state. When starting a new box set, dispense some adhesive into a bucket or other suitable receptacle to achieve a proper mix.

SUBSTRATE PREPARATION

All surfaces must be clean, dry, and free of dirt, grease, oil, or other contaminants or particulates. All concrete surfaces must be cured prior to applying Sarnacol® AD Adhesive.

APPLICATION

Ribbon Application:

Hold the applicator approximately 12-18 inches above to substrate. Apply adhesive in 1" (25 mm) to 1.5" (38 mm) wide wet beads in a ribbon pattern. Ribbon spacing will depend on the wind uplift rating required. Allow the adhesive to begin rising and place insulation, cover board or membrane into the adhesive before the adhesive has skinned over. Walk boards in, ballast if necessary to eliminate uneven surfaces and ensure positive contact between the boards, adhesive and substrate. Roll the membrane with a minimum 75 lb (34 kg) steel roller to ensure positive contact between the membrane, adhesive and substrate.

Spatter Application:

Remove static mixer from bag and remove red plug from the inlet of the static mixer. Inspect to ensure rubber gasket is present inside the inlet. Attach the static mixer to the applicator and twist 1/4 turn clockwise. Rotate static mixer so that the outlet fan is in a vertical position for spatter application. When ready to apply, hold the applicator approximately 18-24 inches above to application surface and fully engage the trigger to begin. Maintaining that height, move the applicator side to side in a sweeping motion applying the adhesive to the substrate. Proper coverage should cover the substrate between 60-80%. As more adhesive is applied, it may be necessary to slow the walking pace slightly to maintain the proper 80% coverage. Allow the adhesive to rise slightly before rolling the membrane into the adhesive, then roll with a weighted roller to ensure proper contact between the adhesive and the membrane. Do not allow the adhesive to skin over. Unused adhesive can be applied at a later date by replacing the applicator.

Product Data Sheet
Sarnacol® AD Adhesive
April 2026, Version 02.02
020945072000242488

OTHER RESTRICTIONS

See Legal Disclaimer.

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.

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.**

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SarnacolADAdhesive-en-US-(04-2026)-2-2.pdf

