

PRODUCT DATA SHEET

Sarnacol® AD Board Adhesive

Two-component foamable polyurethane adhesive

PRODUCT DESCRIPTION

Sarnacol® AD Board Adhesive is a two-component foamable polyurethane adhesive that is applied in one step and sets up in minutes.

USES

Used to bond insulations and cover boards to approved substrates and/or to intermediate insulation boards.

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
- High Density Polyisocyanurate Roof Boards
- Gypsum Cover Boards

CHARACTERISTICS / ADVANTAGES

- Low VOC
- Rapid application with appropriate dispensing tools
- Chemical cure for fast set up and dry in times

APPROVALS / STANDARDS

- FM Global
- Underwriters Laboratories
- Miami-Dade County
- Florida Building Code

PRODUCT INFORMATION

Chemical Base	Liquid
Packaging	<ul style="list-style-type: none">▪ 10 gal (37.8 L) box set: 5 gal (18.9 L) 53 lb (24 kg) of Part 1 and 5 gal (18.9 L) 45 lb (20.4 kg) of Part 2, 18 box sets per pallet▪ 30 gal (113.4 L) drum set: 15 gal (56.7 L) 155 lb (70.3 kg) of Part 1 and 15 gal (56.7 L) 133 lb (60.3 kg) of Part 2, 8 drum sets per pallet▪ 100 gal (378.4 L) drum set: 50 gal (189.2 L) 540 lb (244.9 kg) of Part 1 and 50 gal (189.2 L) 465 lb (210.9 kg) of Part 2, 2 drum set per pallet
Shelf Life	18 months if stored properly in original unopened, sealed and undamaged packaging.
Storage Conditions	Store in a dry location, not in direct sunlight, and temperatures between 45°F (7°C) and 95°F (35°C). Protect from freezing at all times. Store boxes with valve side up. When not in use keep stored containers closed. Protect from atmospheric moisture.
Volatile organic compound (VOC) content	32 g/L (Part 1 + 2 Combined)

APPLICATION INFORMATION

Coverage	<p>Part 1 and Part 2 mixed through an approved low pressure pump cart will produce the following coverage rates:</p> <p>10 gallon (18.9 L) Kit: 2,500 - 3,000 ft² (232 -279 m²) 30 gallon (56.7 L) Kit: 7,500 - 9,000 ft² (697 - 869 m²) 100 Gallon (189 L) Kit: 25,000 - 30,000 ft² (2,323 - 2,787 m²)</p> <p>Coverage estimates indicate total square feet of insulation attachment per kit. Rates are based on an application pattern of four 1/2" to 3/4" (1.3 cm to 1.9 cm) ribbons spaced 12" (30 cm) on center per 4 ft x 4 ft (1.2 m x 1.2 m) insulation board. NOTE: A 1/2" - 3/4" (1.3 cm - 1.9 cm) wide uncured adhesive bead will produce a 2" - 3" (5.1 cm – 7.6 cm) wide cured adhesive bead that will rise approximately 3/4" – 1" (1.9 cm - 2.5 cm) above the substrate. Coverage rates may be lower when used over irregular surfaces and will vary depending on roughness.</p>
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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.

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.

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.
- Adhesive should be stored at 70°F (21°C) or above for a minimum of 48 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 surface temperatures should be 25°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.
- Do not allow the adhesive to skin over.

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

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 Board Adhesive.

APPLICATION

Apply Sarnacol® AD Board Adhesive with an approved low pressure pump cart or pump system.

Approved equipment includes:

- Millennium Cyclone low pressure pump cart
- Graco Reactor E-10
- Graco Predator
- Adhesive Systems Technology GMP-075
- Adhesive Systems Technology PCH GMP-500

Drum sets should be placed on a drum roller or agitated prior to use. Spray Part 1 and Part 2 at a 1:1 ratio.

Always ensure that the Part 1 and Part 2 containers are always hooked to the same dispensing holders or hoses (i.e. do not reverse the dispenser holders and hoses between Part 1 and Part 2). The connector colors must match.

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 set, dispense some adhesive into a waste container to achieve a proper mix.

Apply the Sarnacol® AD Board Adhesive directly to the substrate. Apply adhesive in 1/2" (13 mm) to 3/4" (19 mm) wide wet beads in a ribbon pattern. Ribbon spacing will depend on the wind uplift rating required. The wet beads will quickly spread to a width of 2" (51 mm) to 3" (76 mm).

Allow Sarnacol® AD Board Adhesive to begin rising and place the boards 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. Adhesive open time varies depending on weather conditions. Unused adhesive can be applied at a later date by simply replacing the mixing tip.

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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Product Data Sheet

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