

PRODUCT DATA SHEET

SARNACOL[®] AD BOARD ADHESIVE

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

PRODUCT INFORMATION

USES

Sarnacol AD Board Adhesive is used to bond insulations and cover boards to approved substrates and/or to intermediate insulation boards.

AREAS OF APPLICATION

Sika Approved Substrates

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

Sika Approved Insulations and Cover Boards

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

FEATURES / BENEFITS

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

TESTS

CODES / APPROVALS

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

PRIOR TO EACH USE OF ANY SIKA PRODUCT, THE USER MUST ALWAYS READ AND FOLLOW THE WARNINGS AND INSTRUCTIONS ON THE PRODUCT'S MOST CURRENT PRODUCT DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET WHICH ARE AVAILABLE ONLINE AT USA.SARNAFIL.SIKA.COM OR BY CALLING SIKA SARNAFIL'S TECHNICAL SERVICE DEPARTMENT AT 800-451-2504. NOTHING CONTAINED IN ANY SIKA 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 DATA SHEET, PRODUCT LABEL AND SAFETY DATA SHEET PRIOR TO PRODUCT USE.

PRODUCT DATA

FORM

COMPOSITION

Liquid

COLOR

Off White to Light Amber

VOC CONTENT

32 g/l (Part 1 & 2 Combined)

PACKAGING

- 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, 4 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 drums set per pallet

STORAGE

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.

SHELF LIFE

18 months if stored properly in original unopened, sealed and undamaged packaging.

SYSTEM INFORMATION

APPLICATION INSTRUCTIONS

SURFACE 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 METHOD / TOOLS

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.

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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 ½ inch (13 mm) to ¾ inch (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 in. (51 mm) to 3 in. (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.

COVERAGE

Application rates vary depending on surface roughness and absorption rate of the substrate. Typical coverage rates when using the:

- 10 gallon box set is 2,500 to 3,000 sq. ft. (232 to 279 m²)
- 30 gallon drum set is 7,500 to 9,000 sq. ft. (696 to 836 m²)
- 100 gallon drum set is 25,000 to 30,000 sq. ft. (2,322 to 2,787 m²)

Rates are based on an application pattern of 4 ribbons, ½ inch (13 mm) to ¾ inch (19 mm) wide beads spaced 12 in (30 cm) o.c. per 4 ft x 4 ft (1.2 m x 1.2 m) insulation board.

A ½ inch (13 mm) to ¾ inch (19 mm) wide uncured adhesive bead will produce a 2 in (51 mm) to 3 in (76 mm) wide cured adhesive bead that will rise approximately ¾ inch (19 mm) to 1 in (25 mm) above the substrate.

PRODUCT 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.

- The minimum ambient and surface temperatures should be 25°F (-4°C) and rising.
- 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.
- Do not apply in wet weather or to a wet surface.
- Not recommended for use with insulation boards larger than 4' x 4' (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.

AVAILABILITY

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

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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.

WARRANTY

As a Sika supplied accessory, Sarnacol AD Board Adhesive is covered under Sika Corporation warranties.

LEGAL NOTES

All information provided by Sika Corporation ("Sika") concerning Sika products, including but not limited to, any recommendations and advice relating to the application and use of Sika products, is given in good faith based on Sika's current experience and knowledge of its products when properly stored, handled and applied under normal conditions in accordance with Sika's instructions. In practice, the differences in materials, substrates, storage and handling conditions, actual site conditions and other factors outside of Sika's control are such that Sika assumes no liability for the provision of such information, advice, recommendations or instructions related to its products, nor shall any legal relationship be created by or arise from the provision of such information, advice, recommendations or instructions related to its products. The user of the Sika product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with the full application of the product(s). Sika reserves the right to change the properties of its products without notice. All sales of Sika product(s) are subject to its current terms and conditions of sale which are available at usa.sarnafil.sika.com or by calling 800-451-2504.

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