



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.

WHERE TO USE

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

CHARACTERISTICS / ADVANTAGES

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

APPROVALS / CERTIFICATES

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

PRODUCT INFORMATION

Composition / Manufacturing

Liquid

Packaging

- 37.8 L (10 US gal.) box set: 18.9 L (5 US gal.) 24 kg (53 lb) of Part 1 and 18.9 L (5 US gal.) 20.4 kg (45 lb) of Part 2, 18 box sets per pallet
- 113.4 L (30 US gal.) drum set: 56.7 L (15 US gal.) 70.3 kg (155 lb) of Part 1 and 56.7 L (15 US gal.) 60.3 kg (133 lb) of Part 2, 8 drum sets per pallet
- 378.4 L (100 US gal.) drum set: 189.2 L (50 US gal.) 244.9 kg (540 lb) of Part 1 and 189.2 L (50 US gal.) 210.9 kg (465 lb) of Part 2, 2 drum set per pallet

Appearance / Colour

Off White to Light Amber

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| 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 7°C (45°F) and 35°C (95°F). 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

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| Consumption | <p>Part 1 and Part 2 mixed through an approved low pressure pump cart will produce the following coverage rates:</p> <p>18.9 L (5 US gal.) Kit: 232 - 279 m² (2,500 - 3,000 ft²) 56.7 L (15 US gal.) Kit: 697 - 869 m² (7,500 - 9,000 ft²) 189 L (50 US gal.) Kit: 2,323 - 2,787 m² (25,000 - 30,000 ft²)</p> <p>Coverage estimates indicate total square feet of insulation attachment per kit. Rates are based on an application pattern of four 1.3 cm to 1.9 cm (½ in to ¾ in) ribbons spaced 30 cm (12 in) on center per 1.2 m x 1.2 m (4 ft x 4 ft) insulation board.</p> <p>Note: A 1.3 cm - 1.9 cm (½ in - ¾ in) wide uncured adhesive bead will produce a 5.1 cm – 7.6 cm (2 in - 3 in) wide cured adhesive bead that will rise approximately 1.9 cm - 2.5 cm (¾ in – 1 in) 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

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® AD Board Adhesive 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 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 21°C (70°F) 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 -4°C (25°F) and rising.
- Not recommended for use with insulation boards larger than 1.2 m x 1.2 m (4 ft x 4 ft)
- All boards must lay flat upon roof surface. Do not use warped or curled insulation boards.
- Do not allow the adhesive to skin over.

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 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 13 mm (½ in) to 19 mm (¾ in) 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 51 mm (2 in) to 76 mm (3 in).

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.

Sika Canada Inc.

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MAINTENANCE

Standard maintenance of Sarnafil® or Sikaplan® systems should include inspections of flashings, drains, and termination sealants 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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