

PRODUCT DATA SHEET

Sarnacol[®]-2162

POLYURETHANE ADHESIVE FOR BONDING ROOF INSULATION BOARDS

PRODUCT DESCRIPTION

Sarnacol[®]-2162 is a 1-part, polyurethane based solvent moisture curing adhesive

USES

Bonding insulation boards to various roof substrates.

Suitable insulation boards:

- PUR/PIR insulation boards with lamination (glass or mineral fibre fleece)
- Polystyrene (EPS, XPS)
- Mineral fibre boards with sufficient compressive strength and appropriate surface for bonding

Bonding substrates:

- Concrete, lightweight concrete
- Oriented fibre strand boards (OSB), plywood panels, timber boards
- Fibre cement boards
- Mineral or sand-surfaced/aged bitumen
- Galvanized or coated steel, zinc metal sheet
- Vapour control layer (Sarnavap 5000 E SA)

CHARACTERISTICS / ADVANTAGES

- Proven performance over decades
- Adheres to solid, clean, dry or slightly moist surfaces
- Rapid curing
- Application by brush or roller
- Good adhesion to different substrates

PRODUCT INFORMATION

Chemical Base	Polyurethane moisture curing	
Packaging	One way container:	5 kg
	Packing unit:	Euro pallet or single container
	Refer to current price list for packaging variations	
Appearance / Colour	Light yellow	
Shelf Life	12 months from date of production.	
Storage Conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging.	
Density	~1,08 kg/l (+20 °C)	
Volatile organic compound (VOC) content	VOC-CH (VOCV) 7,4 % VOC-EU (Solvent) 7,4 %	
Consistency	Liquid	

SYSTEM INFORMATION

Compatibility	Polymer single ply waterproofing membranes (thermoplastics/elastomers).
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APPLICATION INFORMATION

Consumption	Field zones: ~200 g/m ² –400 g/m ² up to 1000 g/m ² on very absorbent substrates. Perimeter zones (roof edge and corners): consumption must be increased by 50 % to 300 g/m ² respectively 600 g/m ² . Consumption depends on the roughness and absorbency of the substrate. These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc.
Ambient Air Temperature	+5 °C min
Substrate Temperature	+5 °C min
Setting Time	Moisture containing substrates such as timber and concrete: ~5 hours at +5 °C ~2½ hours at +23 °C Non-moisture containing substrates such as bituminous products: ~8 hours at +5 °C ~5½ hours at +23 °C These times can be affected by air humidity, temperature, adhesive thickness and substrate moisture content.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The substrate must offer sufficient strength and adhesion to resist the forces generated by wind suction.

SUBSTRATE PREPARATION

The substrate must be firm, clean, dry or slightly moist, free from oil, grease, dust, stripping agents, standing water and loose friable particles. Use Primer-600 to improve the adhesion on critical substrates. (e.g. sanded/slatted bitumen). Sheet metal must be cleaned with Sarna Cleaner before adhesive is applied.

APPLICATION

Reference must be made to further documentation where applicable, such as relevant method statement, application manual and installation or working instructions.

General Information

Sarnacol®-2162 must be shaken vigorously before use. Keep adhesive container closed whenever adhesive is not being used to prevent surface skinning. To improve the workability of the adhesive at low temperatures, the closed container can be placed in warm water (max. +50 °C).

Bonding insulation boards (wet bonding)

Remove the lid from the tin and pull out the pouring spout. In central zones apply 4 continuous beads of adhesive per metre in parallel straight lines with a liquid bead width of 10–20 mm (200–400 g/m²). In perimeter zones apply 6 continuous beads of adhesive per metre with a liquid bead width of 10–20 mm (300–600 g/m²). Do not apply the adhesive to an area greater than can be covered in 5 minutes. The insulation boards or vapour control layer must be laid and pressed into the adhesive beads before surface skinning of the adhesive.

When bonding insulation boards it is recommended that periodic checks are carried out to check that the adhesive beads have been squeezed flat. Lift the insulation material at the leading edge to confirm. This is especially important on very uneven substrates.

Bonding bituminous vapour control layers (wet bonding)

Consult Sika before using Sarnacol®-2162 to bond bituminous vapour control layers as wind uplift calculations must be carried out to ascertain the suitability of the adhesive. When bonding bituminous vapour control layers to either plywood or concrete substrates, the beads of adhesive must be spread with a clean spatula to avoid over-foaming and laid within 5 minutes after application.

Bonding on roof slopes >10°

Where roofs have a slope >10°, the insulation boards or bituminous vapour control layers must be secured mechanically to prevent slipping until the Sarnacol®-2162 has set.

CLEANING OF TOOLS

Clean all tools and application equipment with Sika® Sarna Cleaner immediately after use. Hardened material can only be mechanically removed

FURTHER DOCUMENTS

Installation instructions: Relevant product which is being bonded

LIMITATIONS

- Do not apply to talcum coated surfaces or new APP-modified bitumen
- The use of some ancillary products such as adhesives, cleaners and solvents is limited to temperatures above +5 °C. Observe temperature limitations in the appropriate Product Data Sheets.

- Special measures may be compulsory for installation below +5°C ambient temperature due to safety requirements in accordance with national regulations.

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

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 the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

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 written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. 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.

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