

# PRODUCT DATA SHEET

## Sarnacol®-2162

Adhesive to bond Insulation Boards to various Substrates

### DESCRIPTION

Polyurethane-based humidity-hardening one-pack adhesive.  
Suitable for use in hot and tropical climatic conditions.

### USES

Sarnacol®-2162 is an adhesive to bond insulation boards to various substrates.

### CHARACTERISTICS / ADVANTAGES

- Proven performance over decades
- Adheres to solid, clean and dry or slightly moist surfaces
- Rapid hardening depending on humidity and temperature
- Ease and robust application directly out of keg.

### 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

### Suitable 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 and zinc metal
- Vapour control layer (Sarnavap 5000 E SA)

### SUSTAINABILITY

The standard rules of good concreting practice for production and placing must be observed when using Sarnacol®-2162 in concrete. Refer to relevant standards. Fresh concrete must be cured properly especially at high temperatures in order to prevent plastic and drying shrinkage. Use Sika® Antisol® products as a curing agent or apply wet hessian.

When accidental overdosing occurs the set retarding effect and workability increases, however, no excessive amount of additional air will be entrained. During this period the concrete must be kept moist in order to prevent premature drying out.

~1.07 kg/l

(ASTM C5462)

### PRODUCT INFORMATION

<b>Composition</b>	Polyurethane-based solvent-containing one-pack adhesive, humidity hardening	
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<b>Packaging</b>	One way container:	5 kg
	Packing unit:	Europalett or single container

<b>Appearance and colour</b>	Clear light yellow
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<b>Shelf life</b>	12 months from date of production if stored properly in original, unopened and undamaged sealed container. Expiry date on container.
<b>Storage conditions</b>	Store in dry conditions at temperatures between +5 °C to +30 °C.
<b>Density</b>	~1.08 kg/l (+20 °C)
<b>Volatile organic compound (VOC) content</b>	~7.4 %
<b>Consistency</b>	Liquid

## SYSTEM INFORMATION

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

## APPLICATION INFORMATION

<b>Consumption</b>	Consumption depends on the roughness and absorbency of both substrate and insulation material. In field zones it is about 200 - 400 g/m <sup>2</sup> , at least 400 g/m <sup>2</sup> for mineral fibre insulation. In perimeter zones (roof edge and corners) the consumption must be increased by 50 % to 300 g/m <sup>2</sup> respectively 600 g/m <sup>2</sup> .
<b>Ambient air temperature</b>	min. +5 °C
<b>Substrate temperature</b>	min. +5 °C
<b>Setting time</b>	The reaction speed of Sarnacol®-2162 is influenced by air humidity, temperature, thickness of the adhesive beads and the substrate (moisture content). The setting times on moisture containing substrates such as timber and concrete are: ~5 h at 5 °C ~2½ h at 23 °C The setting times on non-moisture containing substrates such as bituminous products are: ~8 h at 5 °C ~5½ h at 23 °C

## BASIS OF PRODUCT DATA

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

## IMPORTANT CONSIDERATIONS

Unsuitable substrates:

- Talcum coated surfaces
- new APP modified bitumen (Polyethylene film faced)

## ECOLOGY, HEALTH AND 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 QUALITY

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

### SUBSTRATE PREPARATION

- The substrate must be solid, clean, free of oil and grease, air-dry or slightly moist.
- Standing water must be dried off.
- Loose sand or grinds from bitumen membranes must be removed.
- Use Primer-600 to improve the adhesion on critical substrates (example: sanded / slated bitumen).

### APPLICATION

Based on the valid installation instructions of the relevant roof waterproofing membrane.

#### Application Method (General Information):

- Sarnacol®-2162 container must be shaken vigorously before use.
- Close the container if work is stopped for a long period.
- At low temperatures the container can be warmed in warm water (maximum 50 °C) in order to improve the application rate that is lower than the viscosity and increase fluidity.
- Critical substrates can be primed with Primer 600 first to improve adhesion.

#### Bonding of 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 meter in parallel straight lines with a liquid bead width of 10 - 20 mm (200 - 400 g/m<sup>2</sup>). In perimeter zones apply 6 continuous beads of adhesive per meter with a liquid bead width of 10 - 20 mm (300 - 600 g/m<sup>2</sup>). Do not apply more adhesive than can be covered in 5 minutes. The insulation boards or vapour control layer must be laid and pressed into the adhesive beads before skin formation.

When bonding insulation boards it is recommended that periodic checks are carried out to check that the adhesive ridges have been squeezed flat. Do this by lifting the insulation material at the leading edge. This is especially important on very uneven substrates. Bonding of bituminous vapour control layers (wet bonding):

Consult Sika before using Sarnacol®-2162 to bond bituminous vapour control layers as wind uplift calculations have to 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, but must be overlaid within 5 minutes.

#### **Bonding on roof slopes greater than 10°:**

Where roofs have an inclination in excess of 10°, the insulation boards or bituminous vapor control layers have to be secured mechanically to prevent slipping until the Sarnacol®-2162 has set.

#### **CLEANING OF EQUIPMENT**

Tools and equipment must be cleaned with Sarna Cleaner immediately after use.

## **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 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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All products are supplied under  
a management system certified  
to conform to the requirements  
of the quality, environmental  
and occupational health &  
safety standards: ISO 9001,  
ISO 14001 and ISO 45001.

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#### **Product Data Sheet**

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