

PRODUCT DATA SHEET

Sarnacol[®]-2142 S

Adhesive for Sarnafil[®] felt backed roof waterproofing membranes

DESCRIPTION

Sarnacol[®]-2142 S is a 1-part, polyurethane based moisture curing adhesive. Suitable for use in hot and tropical climatic conditions.

USES

Bonding Sarnafil[®] G Felt-type and Sarnafil[®] T Felt-type membranes to roof substrates.

Bonding substrates

- Concrete, lightweight concrete, plaster
- Oriented fibre strand boards, plywood panels
- Fibre cement boards
- Slated/mineralized bitumen sheets; new and aged
- Mineral fibre boards: product specific approval with sufficient compressive strength and appropriate surface for bonding
- PUR/PIR insulation boards with lamination (glass, mineral fibre fleece or aluminium facing) product specific approval (e.g. Kingspan TR 26/27)
- EPS insulation boards: Slap stock foaming cut, compressive strength ≥ 100 kPa
- Steel panels: product specific approval (e.g. Brucha Panels WP)
- Metal sheet (e.g. galvanized)

CHARACTERISTICS / ADVANTAGES

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

APPROVALS / CERTIFICATES

- Factory Mutual (FM) Certificate

PRODUCT INFORMATION

| | | |
|----------------------------|--|---------------------------------|
| Composition | Polyurethane moisture curing | |
| Packaging | One way container | 5 kg, 15 kg |
| | Packing unit | Euro pallet or single container |
| | Refer to current price list for packaging variations | |
| Appearance / Colour | Blue | |
| Shelf life | 9 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. | |

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| Density | ~1,00 kg/l (+20 °C) | |
| Volatile organic compound (VOC) content | VOC-CH | 18,8 % |
| | VOC-EU | 18,8 % |
| Consistency | Liquid | |

SYSTEMS

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| Compatibility | Incompatible substrates: <ul style="list-style-type: none"> ▪ Single ply waterproofing membranes without a felt backing ▪ Talcum coated bituminous sheets |
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APPLICATION INFORMATION

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| Consumption | Consumption depends on the roughness and absorbency of the substrate. Recommended consumption of Sarnacol®-2142 S on different substrates (+20 °C / 50 % r.h.) | | |
| | Substrate | 1st Coat g/m² | 2nd Coat g/m² |
| | Mineral-fibre board: Standard board smooth surface | Not suitable | Not suitable |
| | Mineral-fibre board: Flumroc "Mega" rough surface | 800 | 400 |
| | Mineral-fibre board: Bondrock MV | 400 | - |
| | Bituminous sheet: New: Slated/mineral surface | 450 | - |
| | Bituminous sheet: Aged: Slated/mineral surface | 400 | - |
| | PUR/PIR: Type Kingspan TR 27 and Sikatherm PIR GT with glass tissue facing, Kingspan TR 26 and Sikatherm PIR AL with aluminium facing | 400 | - |
| | Timber: OSB 3 | 350 | - |
| | EPS: Slab stock foaming cut: e.g. ISOBOUW | 250 | - |
| | These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc. | | |

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| Ambient air temperature | +5 °C min |
| Substrate temperature | +5 °C min |
| Setting time | ~1–5 hours. Setting is prolonged in low temperatures and accelerated in high temperatures. Final strength is achieved after ~1 week. These times can be affected by ambient conditions. |

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, bitumen residue and loose friable particles.

APPLICATION

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

General information

Sarnacol®-2142 S must be stirred carefully 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. +40 °C).

Adhesive residue on Sarnafil® G Felt must be cleaned with Sarna Cleaner.

Adhesive residue on Sarnafil® T Felt, must be cleaned with Sarnafil® T Clean.

General bonding procedure - Wet bonding

The adhesive is spread evenly onto the substrate by using a synthetic application roller directly from the container and ensuring there are no lumps in the applied layers.

Bonding to PVC Membranes

Apply adhesive onto the substrate. Do not apply the adhesive to an area greater than can be covered within 15 minutes. Do not pour out the adhesive and roll in a second stage. Once the adhesive surface has become 'tacky', apply the membrane onto the adhesive. Press down firmly on the membrane using a suitable pressure roller such as a water-filled, or heavy steel roller 40 – 50 kg.

Bonding to EPS insulation board

Apply adhesive onto the substrate in a thin layer (~250 g/m²).

Bonding to very absorbent substrates (Mineral fibre boards)

Apply 2 coats of adhesive. The first coat ~800 g/m². Allow the adhesive to dry completely. Apply a second coat ~400 g/m² max.

CLEANING OF EQUIPMENT

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

FURTHER INFORMATION

- Installation instructions: Sarnafil® G 410-EL Felt or Sarnafil® TG 76 Felt system fully bonded for exposed roofs.

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IMPORTANT CONSIDERATIONS

- 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.

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.

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.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

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 OHSAS 18001.

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