

Decostik[®] Foaming Adhesive

Solvent free, two-part liquid-applied urethane adhesive, specifically formulated to bond Decotherm insulation to various existing substrates

Product Description

Sika Liquid Plastics Decostik[®] Foaming Adhesive is a solvent free, two-part liquid-applied urethane adhesive, specifically formulated to bond Decotherm insulation to various existing substrates. It is designed to be applied in a liquid bead which quickly forms a low density foam which expands and allows application to roofs which are uneven and undulated. It will not cause the insulation boards to lift which could result in an uneven surface. It is a non-hazardous, cold applied, 100% solids adhesive. The product is dispensed via a twin cartridge system to avoid any risk of incorrect mixing and handling of liquids.

Uses

Decostik[®] Foaming Adhesive is used for bonding Decotherm insulation to existing waterproofing systems where no additional vapour control layer is needed.

Decostik[®] Foaming Adhesive will provide a successful bond to the following substrates:

- SBS Bitumen (smooth and granule surfaced)
- APP Bitumen (granule surface)
- Asphalt/Felt
- Solar Reflective Paint – subject to adhesion test

Please contact Sika Liquid Plastics Technical Customer Services for further advice

Note: Decostik[®] Foaming Adhesive should not be used to bond Decotherm insulation to S-Vap 5000E SA.

Characteristics / Advantages

- Excellent initial grab – boards are secure in 10 minutes
- Quick application – using a battery operated applicator
- Cures in all temperatures
- Elastomeric – remains flexible and can absorb stresses
- Can be used on vertical surfaces
- Cold applied
- Solvent free

Product Data

Test

Approvals / Standards

- British Board of Agrément (BBA) certified No. 14/5147

Form

Appearance

Twin-pack product
Colourless to pale yellow liquid



Packaging Decostik® Foaming Adhesive is available in one pack size, a 1500ml cartridge, with 4 cartridges being supplied in a box.

Storage

Storage Conditions / Shelf Life For ease of application maintain a minimum material temperature of 21°C before use. Shelf life is 12 months from the date of manufacture.

Technical Data

Chemical Base Two component, solvent free, two-part liquid-applied urethane adhesive

Solid Content 100%

System Information

Maximum Coverage Rates

Coverage Rates 0.11 L/m²
4 cartridges will bond approximately 56m² of insulation (14 m² per 1.5L cartridge)

Substrate Quality The roof surface must be completely dry before adhering any boards. The surface must also be free of dirt, dust, debris, oils, loose gravel, un-adhered coatings, deteriorated membrane and other contaminants that may result in a surface that is unsuitable. Insulation boards must lay flat upon a sound roof surface in order to ensure proper contact between the board and adhesive. Substrates should be structurally sound and in good condition.

Substrate Preparation

Existing Waterproofing - General Preparation

Initial Power Wash All surfaces are to be initially power washed in order to reveal a clean surface suitable for repair, where necessary. A minimum 2000 psi is recommended for preparation. There is no specific maximum as this may vary according to the equipment used and the surfaces being cleaned. At no time should the pressure jet be so high as to cause damage to the substrate being cleaned. Adjust pressure to clean away contamination and friable material from the surface.

Note: Exercise suitable precautions when using high pressure equipment and check for any roof leaks and drainage for adequate flow

The roof surface must be **completely** dry before adhering any boards.



Specific Substrate Preparation

Felt Inspect the felt, vapour blisters must be star cut, turned back, dried out where necessary and then re-fixed. Badly cracked or degraded felt is to be replaced with Sika Liquid Plastics Carrier Membrane bonded in Sika Liquid Plastics Decostik® cold fusion adhesive. Ensure the felt is correctly laid and/or suitably adhered and provides a smooth level surface to accept the following insulation system. Seal all repairs to ensure the continuity of the vapour control layer.

Note: Exercise all necessary care when cutting. Brush away excess grit from mineral surfaces.

Asphalt Inspect the asphalt, gas blisters must be flattened, slump or sag reinstated, damaged asphalt removed and significant cracks filled. Use an appropriate polymer modified mortar or other suitable approved compatible material. Repairs are to be allowed to cure prior to application. Seal all repairs to ensure the continuity of the vapour control layer.

Solar Reflective Paint Ensure that the existing material is sound and firmly adhered. Loose or damaged coatings are to be removed.

Application Conditions and Limitations

Substrate and Ambient Temperature Substrate must be frost free and visibly dry.

Dew Point Beware of condensation. Surface temperature during application must be at least +3°C above dew point.

Application Instructions

Application Method Using a sharp knife cut the two nibs off the threaded head of a cartridge and attach the mixing nozzle. If the cartridge is equipped with a "snap off" tip, break the tip off and keep for re-use and then attach the mixing nozzle.

Attach a mixing tip to the threaded mixing head. Place the cartridge into the applicator. At the beginning of the tube, some of the material should be pumped out initially to make sure of a proper mix. Apply Decostik® Foaming Adhesive directly to the substrate, using a ribbon pattern.

Use the applicator tool to create beads of Decostik® Foaming Adhesive on the roof surface which need to be a minimum of 6mm in size, laid in straight parallel lines 300mm apart, with a distance of no more than 150mm from the perimeters and edges of the insulation.

As the adhesive is applied, place insulation board into the wet adhesive. Do not allow the adhesive to skin over. Eliminate uneven surfaces to ensure positive contact between the insulation board and substrate.

After foaming, each bead expands to a width of 20mm-40mm. Bead width is controlled by the operator applying the adhesive. Standard coverage rates are based on straight lines of application. When applied in accordance with these guidelines a box of Decostik® Foaming Adhesive (4 cartridges) will bond approximately 56m² of insulation (14 m² per 1500 ml cartridge).

Insulation boards should be no larger than 1200mm x 1200mm.



Product Data Sheet

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Application Tools

Decostik® Foaming Adhesive is applied using a cordless battery operated applicator. Manual applicators are also available as a back up.

Potlife

Decostik® Foaming Adhesive is automatically mixed in the nozzle of the applicator. Each box of 4 cartridges includes 6 mixer nozzles and a pack of cartridge caps, which can be used to seal the cartridge if not all of the contents are required.

Unused material can be applied at a later date by simply un-plugging the cartridges and using a new mixing nozzle.

Curing Details**Approximate Curing Times**

Air Temperature between 15 - 32°C = 5 - 8 minutes

Air Temperature between 0 - 15°C = 8 - 15 minutes

No additional procedures are necessary, such as re-aligning or weighting down the insulation, and further roofing work can commence after 5-15 minutes.

Notes on Application**Health and Safety Information**

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

Disclaimer

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.

General Information**Specification Assistance**

NBS is the industry standard specification system, which allows architects, specifiers and engineers to insert clauses into specifications by manufacturer and product, making the process quicker and more efficient. We are members of NBS Plus and therefore detailed up-to-date product information is readily available to create accurate specifications.

Contact Details

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Roofing

