

# Decostik®

## Two-component solvent-free polyurethane adhesive used in the construction of Sika Liquid Plastics Cold Bonding Systems

**Product Description** Sika Liquid Plastics' Decostik® is a two pack, solvent-free polyurethane adhesive used in the construction of a cold applied built-up roofing system.

**Uses** Decostik® is typically used to bond Sika Liquid Plastics Carrier Membrane.

**Characteristics / Advantages**

- Solvent-free
- Decostik® will provide a suitable bond to the following substrates:
  - Plywood, timber and other timber based boards
  - Concrete
  - Galvanised steel
  - Aluminium
  - Asphalt
  - Decotherm® Insulation
  - Bitumen based felt membranes (inc. SBS modified felt)
  - Solar reflective paint – subject to an adhesion test

### Product Data

#### Form

**Form** Twin-pack product

**Appearance** Colourless to pale yellow liquid

**Packaging** Decostik® (pack size) 12 litres; Part A: 8 litres (supplied in a 15 litre container) and Part B: 4 litres (supplied in a 5 litre container).

#### Storage

**Storage Conditions / Shelf Life** Containers should be stored in an area that is well ventilated, dry and free from extremes of temperature and humidity. Store at a temperature between 2°C and 25°C away from sources of heat and naked flames. Protect from frost. For best results, store Decostik® Parts A and B at 15°C to 25°C for 24 hours prior to application.

Only open containers when ready for use.

Shelf life is 12 months from date of production if stored properly in original, unopened and undamaged sealed container.

### Technical Data

**Chemical Base:** Two-component, solvent-free polyurethane adhesive



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**Density:** 1.0 kg/l

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**Flash Point:** >200°C

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**Solid Content:** 100%

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## System Information

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### Substrate Quality

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The roof surface must be completely dry before applying Decostik®. The surface must also be free of dirt, debris, oils, loose gravel, un-adhered coatings, deteriorated membrane and other contaminants that may result in a surface that is unsuitable. Substrates should be structurally sound and in good condition.

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### Substrate Preparation

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#### General Preparation

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**Initial Power Wash** All existing surfaces are to be initially power washed in order to reveal a clean surface suitable for adhesion, 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 applying Decostik®.

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#### Specific Substrate Preparation

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**Timber** Ensure timber is in good condition, dry and free from oily preservatives before bonding membranes. Decostik® is not a timber glue and individual pieces of timber should be fixed together traditionally before proceeding.

**Concrete** Concrete should be sound and of good quality, appropriate for purpose, free from laitance, other contamination and dry.

**Metal** Decostik® may be used to bond membranes onto metal. On surfaces such as corrugated sheeting ensure sufficient surface area contact is available. Overboarding may be required in certain circumstances. Decostik® is not anti-corrosive any metal requiring protection must therefore be treated before bonding.

**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.

**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<sup>®</sup> 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.

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

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### Application Conditions and Limitations

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**Substrate and Ambient Temperature** +5 °C min. / + 20 °C max.  
(For higher temperature applications use Decostik<sup>®</sup> HT)

**Relative Humidity** 20 % min. / 85 % max.

**Substrate Moisture Content** Ensure the surface is visibly dry. Substrate moisture content must be <20% wood moisture equivalent as measured by a protimeter.

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

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### Application Instructions

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**Application Method** To mix add all of Part B to Part A and mix together until uniform with an EPI or equivalent mixer in an electric drill for 2 minutes. Ensure all Part B material is well scraped out into Part A. When fully mixed, the Decostik<sup>®</sup> should be free from streaks and of a uniform colour.

Use a Decostik<sup>®</sup> Applicator or a pouring can to apply the Decostik<sup>®</sup> for a standard bonding. Alternatively a full bond can be achieved by spreading Decostik<sup>®</sup> as a coating with a roller or squeegee. Coverage will vary depending on surface being treated and method of bonding 0.5L to 1L/m<sup>2</sup> is normal.

**Application Tools** Pouring can or Decostik<sup>®</sup> Applicator is used to snake the Decostik<sup>®</sup> to the structural deck, the Vapour Control Layer or the Decotherm<sup>®</sup> Insulation.

Full bond use roller or squeegee.

Mixing – always mechanical with drill ideally EPI or equivalent mixing paddle.

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**Product Data Sheet**

Edition 12.2014

Identification no. 02 09 45 07 400 0 000003

Version no. 02

<b>Potlife</b>	5°C*	30 mins
	10°C	25 mins
	15°C	20 mins
	20°C	15 mins

\* A short induction time may be necessary to facilitate pouring

**Curing Details****Approximate Curing Times**

No adjustments should be made to alter the mixing ratio of Decostik®. Ensure that the full contents of the Part B tin are added to the Part A prior to mixing. Do not mix part units. Do not add solvents or thinners to the product

Efforts should be made to minimise the contamination with Decostik® of surfaces to be overcoated. Excess Decostik® should be removed with a scraper as work proceeds. Do not overcoat uncured Decostik® with Decothane products, the product should be allowed to cure for a minimum of 2 hours prior to overcoating.

Please note: Cure time will be lengthened in conditions of either low temperature and/or low relative humidity.

**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.

**General Information****Disclaimer**

The information, and, in particular, the recommendations relating to the application and end-use of Sika Liquid Plastics products, are given in good faith based on Sika Liquid Plastics' current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika Liquid Plastics' 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 Liquid Plastics 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.

**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.



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Roofing

