

## PRODUCT DATA SHEET

# SikaRoof® Adhesive C-300 UK

Adhesive for bonding Sikatherm® mineral fibre insulation

### PRODUCT DESCRIPTION

One-component polyurethane based adhesive curing by humidity

### USES

Bonding Sikatherm® mineral fibre insulation

### CHARACTERISTICS / ADVANTAGES

- Adheres to solid, clean and dry or slightly moist surfaces
- Easy application
- Applied directly out of the container

### PRODUCT INFORMATION

<b>Packaging</b>	6kg metal cannister
<b>Shelf Life</b>	12 months from date of production if stored properly in original, unopened and undamaged sealed container.
<b>Storage Conditions</b>	Store in dry conditions at temperatures between +4°C to +30°C Notice the safety precautions mentioned on the labels of containers, as well as the local safety rules for storage of dangerous goods.
<b>Consumption</b>	<p>Consumption</p> <p>APPROXIMATE CONSUMPTION ON NEW SUBSTRATES</p> <p>Substrate Central Perimeter / Corners S-Vap 5000 E SA SikaShield® VB 150–250 g/m<sup>2</sup> &amp; 200–300 g/m<sup>2</sup> Sanded bituminous felt 150–250 g/m<sup>2</sup> &amp; 200–300 g/m<sup>2</sup> Mineral Wool Insulation 300–400 g/m<sup>2</sup> &amp; 450–550 g/m<sup>2</sup> 1 / 3</p> <p>APPROXIMATE CONSUMPTION ON EXISTING SUBSTRATES</p> <p>Substrate Central Perimeter / Corners Mineral faced bituminous felt 200–300 g/m<sup>2</sup> &amp; 300–400 g/m<sup>2</sup> Mastic asphalt 200–300 g/m<sup>2</sup> &amp; 300–400 g/m<sup>2</sup> Other rough faced surfaces 300–400 g/m<sup>2</sup> &amp; 450–550 g/m<sup>2</sup></p> <p>Note: Consumption data is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment. It might be necessary to introduce moisture by</p>

lightly over-misting the applied adhesive with water.

<b>Product Temperature</b>	Product Temperature Maximum +30 °C Minimum +5 °C
<b>Ambient Air Temperature</b>	Maximum +30 °C Minimum +5 °C
<b>Dew Point</b>	Beware of condensation. The substrate and uncured applied product must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the surface of the applied product. Low temperatures and high humidity conditions increase the probability of blooming.
<b>Substrate Temperature</b>	Minimum +5 °C
<b>Curing Time</b>	Substrate +5 °C +23 °C Concrete, timber, fibre cement boards ~5 hours ~2.5 hours Impervious, for example bitumen, steel, vapour barriers ~8 hours ~5.5 hours Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.

## VALUE BASE

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

## ECOLOGY, HEALTH AND SAFETY

### Regulation (EC) No 1907/2006 (REACH) - Mandatory training

As from 24 August 2023 adequate training is required before industrial or professional use of this product. For more information and a link to the training visit [www.sika.com/pu-training](http://www.sika.com/pu-training).



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.

## APPLICATION INSTRUCTIONS

### NOTES ON INSTALLATION

Installation works to be carried out only by Sika instructed contractors for roofing. Temperature limits for the installation of the membrane:  
Substrate temperature: At least +2 °C no frost  
Ambient temperature: At least +5 °C  
Special measures may be compulsory for installation below +5°C ambient temperature due to safety requirements.

### SUBSTRATE QUALITY

**SUBSTRATE QUALITY** The supporting structure must

be of sufficient structural strength to apply all new and existing layers of the roof build-up.

- The complete roof system must be designed and secured against wind uplift loadings.
- The substrate must be clean, and free of all contaminants such as dust, dirt, oil, grease, cement laitance and poorly bonded paint coatings which could reduce the adhesion of the adhesive.

### SUBSTRATE PREPARATION

**SUBSTRATE PREPARATION** All dust, loose and friable material must be completely removed from all surfaces before application of adhesive. ▪ A moist surface is acceptable, however standing water must be avoided and removed before application of adhesive. ▪ For dry surfaces, typically with less than 35% humidity, moisture will need to be introduced to the adhesive after application. ▪ Primer 610 and Primer 600 can be used to improve the adhesion on certain substrates. Contact Sika Technical Services for more information

### APPLICATION

**APPLICATION IMPORTANT** Application by trained personnel The application of this Product must only be carried out by an applicator that is trained or approved by Sika. The applicator must also be experienced in this type of application.

**IMPORTANT** Applying sufficient adhesive Application consumption is based on substrate type and exposure zone.

Using insufficient adhesive can have a negative impact on the Product's performance. Refer to the Consumption section to make sure the correct product quantity is applied corresponding to the number of beads per metre and the bead width listed in the Application Instructions.

**Colder weather working Note:** At temperatures less than +10 °C the container can be heated in warm water (max. +50 °C) to lower the viscosity and increase fluidity.

**Low humidity/dry working Note:** At an atmospheric relative humidity is below 35 % or if the conditions/surfaces are lacking sufficient moisture then spraying a fine mist of water onto the adhesive after application

may be required.

#### BONDING INSULATION BOARDS ON FLAT ROOFS

1. Shake the container vigorously before use. Remove the lid from the container and pour out the adhesive.

**IMPORTANT:** Only apply the amount of adhesive that can be covered within 5 minutes.

2. Pour out the product onto the substrate in continuous straightline liquid beads. Apply each line parallel with each other.

Central zones: 4 beads per metre. Bead width of 20 mm.

Perimeter and Corner zones: 6 beads per metre. Bead width of 20 mm.

3. Press the insulation panel immediately onto the adhesive with light pressure and adjust into position.

**Note:** Do not let the applied adhesive form too much.

**IMPORTANT:** Make sure the adhesive beads have been squeezed flat and have not been absorbed. Lift the insulation board at the leading edge then press board back onto the adhesive. This check is important on very uneven substrates.

#### BONDING INSULATION BOARDS ON ROOF SLOPES

GREATER THAN 10°

Mechanically fix insulation boards or bituminous vapour control layers to prevent slipping until the adhesive has cured.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## 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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#### Product Data Sheet

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