

Sika-Trocal C200 Adhesive

Adhesive for Insulation Boards

Product Description

Polyurethane-based humidity-curing one-part adhesive.

Uses

Sika-Trocal C200 is an adhesive to bond certain insulation boards on approved substrates.

Characteristics / Advantages

- Adheres to solid, clean and dry or slightly moist surfaces
- Suitable insulation boards:
 - PIR insulation boards (glass or mineral fibre facing)
 - Polystyrene (EPS)
- Suitable substrates:
 - S-Vap 5000E SA
 - Concrete, lightweight concrete
 - Oriented strand boards (OSB), plywood panels, timber boards
 - Certain Fibre cement boards
 - Mineral or sand-surfaced/aged bitumen
 - Galvanized steel and zinc metal
- Primer 600 may be required in some instances
- Application: directly out of container with separate nozzle cut accordingly
- Curing depends on humidity and temperature

Tests

Approvals / Standards

- Quality management system EN ISO 9001

Product Data

Form

Consistency

Liquid

Colour

Clear to light yellow

Packaging

Can: 5 kg

Storage

Storage Conditions

Store in dry conditions at temperatures between +5°C to +30°C.

Shelf-Life

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

Roofing



Sika Limited
Watchmead
Welwyn Garden City
Hertfordshire
AL7 1BQ
United Kingdom
Phone +44 1707 394444
Telefax +44 1707 329129
www.sika.co.uk
email: sika-trocal@uk.sika.com



Certificate No. EMS 4308



Certificate No. FM 12504

Technical Data

Chemical Basis Polyurethane-based solvent-containing one-part, humidity curing

Density ~ 1.14 kg/l (+20°C)

System Information

Application Details

Consumption Consumption depends on the roughness and absorbency of both substrate and insulation material. In field zones it is approx 100-300 g/m². In perimeter zones (roof edge and corners) the consumption must be increased by 50% to 150 g/m² and 450 g/m² respectively.

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 certain substrates.

Compatibility Unsuitable substrates:
 - Polymer single ply waterproofing membranes (thermoplastics/elastomers)
 - Talcum coated surfaces
 - New APP modified bitumen (may be possible with Primer 600 adhesion test required)
 - Mineral fibre insulation



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Application Method

General information:

Sika-Trocal C200 adhesive 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 (max. 50 °C) in order to improve the application rate i.e. lower the viscosity and increase fluidity. Critical substrates may should be primed with Primer 600 first to improve adhesion.

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.

Application Rates

The general application rates for Sika-Trocal C200 adhesive are provided below:

Substrate	Central Zone	Perimeter/Corner Zone
S-Vap 5000E SA	100g/m ²	150g/m ²
PIR & EPS Insulation	100g/m ²	150g/m ²
New sanded bituminous felt	100g/m ²	150g/m ²
Existing bituminous felt	150g/m ²	225g/m ²
Existing mineral faced bituminous felt	150g/m ²	225g/m ²
Existing asphalt	150g/m ²	225g/m ²
Other rough faced surfaces	300g/m ²	450g/m ²

The following guidelines relate to the individual application rates given above and the bead width is simply created by cutting the separate nozzle accordingly.

100g/m² Substrates

A minimum **10mm** wide continuous liquid bead should be applied at 250mm centres in the central zone of the roof (approx. 50m² per 5kg can) and 166mm centres in the perimeter zone and any shadow zones of the roof (approx. 33m² per 5kg can). This is based upon an application of the adhesive at approximately 6 linear metres per minute at a temperature of 15 °C.

150g/m² Substrates

A minimum **15mm** wide continuous liquid bead should be applied at 250mm centres in the central zone of the roof (approx. 33m² per 5kg can) and 166mm centres in the perimeter zone and any shadow zones of the roof (approx. 22m² per 5kg can). This is based upon an application of the adhesive at approximately 6 linear metres per minute at a temperature of 15°C.

300g/m² Substrates

A minimum **20mm** wide continuous liquid bead should be applied at 250mm centres in the central zone of the roof (approx. 16m² per 5kg can) and 166mm centres in the perimeter zone and any shadow zones of the roof (approx. 11m² per 5kg can). This is based upon an application of the adhesive at approximately 4.5 linear metres per minute at a temperature of 15°C.

Bonding on roof slopes greater than 10°:

Where roofs have an inclination in excess of 10°, the insulation boards must be mechanically secured to prevent slipping and provide intimate contact until the Sika-Trocal C200 has cured.



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Notes on Installation / Limits

Installation works shall be performed only by a licensed Sika-Trocal Contractor.
Temperature limits for installation:

Substrate temperature: At least +5°C
Ambient temperature: At least +5°C

Installation of some ancillary products, e.g. contact adhesives / cleaners is limited to temperatures above +5 °C. Please observe information given by Product Data Sheets.

Setting

Setting Time

The curing rate of Sika-Trocal C200 adhesive is influenced by air humidity, temperature, thickness of the adhesive beads and the substrate (moisture content). Fine water mist spray may improve curing subject to air humidity and temperature.

The setting times on moisture containing substrates such as timber and concrete are:
approx. 5 hours at 5 °C
approx. 2½ hours at 23 °C

The setting times on non-moisture containing substrates such as bituminous products are:
approx. 8 hours at 5 °C
approx. 5½ hours at 23 °C



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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.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should 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.

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