

Roofing Adhesive

Sika® C-250 Spray

Spray Applied Insulation Adhesive for Sika-Trocal® Roofing Systems

PRODUCT DESCRIPTION

Moisture-curing PU based spray insulation adhesive in a pressurized canister system.

USES

Sika® C-250 is a sprayable adhesive to bond suitable thermal insulation boards to specific substrates.

CHARACTERISTICS / ADVANTAGES

- Quick and professional adhesive application
- Adheres to solid, rough and clean surfaces

SUITABLE INSULATIONS

- Sika-Trocal® InnoBOND/PIR insulation boards with lamination (mineral fibre facing)
- Mineral fibre boards with sufficient compressive strength and appropriate surface bonding

SUITABLE SUBSTRATES

- S-Vap 5000E SA vapour control layer
- Mineral or sand-surfaced/aged bitumen
- Sika® Primer 610 may be required on certain substrates

TESTS

APPROVAL / STANDARDS

- Quality management system EN ISO 9001/14001

PRODUCT DATA

FORM

CONSISTENCY / COLOUR

- Foaming liquid
- Colour Green

PACKAGING

- One way canister: 24.5 kg (Adhesive 18.4 kg)
- Packaging unit: Single canister
- Packaging dimension: Cardboard box 320 mm x 320 mm x 460 mm

**STORAGE****STORAGE CONDITIONS**

Store in dry conditions at temperatures between +5 °C to +25 °C

SHELF-LIFE

12 months from date of production if stored properly in original, unopened and undamaged sealed container. Expiry date on container. The adhesive will have a limited life once the container is opened.

TECHNICAL DATA**CHEMICAL BASIS**

Moisture-curing PU based adhesive.

APPLICATION FIGURES

Open time (20°C) 1-4 minutes

Curing time (20°C) 15 minutes

SYSTEM INFORMATION

APPLICATION DETAILS**CONSUMPTION**

Consumption depends on the roughness and absorbency of the substrate and ranges approximately from 130 g/m² – 260 g/m².

Beads width approx. 30 mm with a distance of 250mm in the central zone and 30 mm with a distance of 166mm in the perimeter zone.

One single canister can cover approximately up to 140m² of central zone.

SUBSTRATE QUALITY

The substrate must offer sufficient strength and adhesion to resist the forces generated by wind suction.

SUBSTRATE PREPARATION

The substrate must be resistant to solvent, firm, clean, dry, free of stripping agents and free of oil and grease.

INSTALLATION INSTRUCTIONS**APPLICATION GUIDELINE**

Based on the valid installation instructions of the relevant roof waterproofing membrane.

In central zones apply 4 continuous beads of adhesive per meter (250mm centres) in parallel straight lines with a foam bead width of approx. 30 mm (130g/m²). In perimeter zones apply 6 continuous beads of adhesive per meter (166mm centres) with a liquid bead width of approx. 30 mm (195g/m²). 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 immediately after spray application.

The pressure and flow of the adhesive should be controlled by the black valve on the spray gun see fig 6. The distance of the spray gun from the substrate will need to be adjusted accordingly.

Please note that the spray tip used with other Sika® spray products is not used with Sika® C-250 Spray! The end of the spray gun will require cleaning in between spraying.

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 gently lifting the insulation material at the leading edge. This is especially important on very uneven substrates.

APPLICATION METHOD**GENERAL INFORMATION**




Based on the valid installation instructions of the relevant roof waterproofing membrane.




The canister and gun will remain usable for 2 weeks after opening. If you do not intend to use the system within this time the adhesive in the hose and gun should be renewed by purging approx. 250ml of adhesive through the system every 2 weeks. If the system is not going to be used for longer than 2 weeks we recommend flushing the gun and hose with the Sika Canister Flushing System.

Once canister is use is empty, the gun/hose can be transferred to a new canister.

CANISTER SET-UP


It is important to set-up your Sika® C-250 Spray Canister Adhesive correctly before use to ensure the best possible performance and to avoid leakage or system failure.

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|------------|---|---|
| 01. |  | Remove the black cap form the canister valve. |
| 02. |  | Attach the braided-hose to the canister valve (using the small nut) and attach the other end of the braided-hose to the spray-gun (using the large nut). Tighten with a spanner. |
| 03. |  | Attach the other end of the braided-hose to the spray-gun (using the large nut). Tighten with a spanner. If there is a spray tip fitted remove this as it is not used with Sika® C-250 Spray. |
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04.		Fully open the valve on the canister.
05.		Pull the trigger on the spray-gun to apply adhesive.
06.		Adjust the flow and pressure by turning the black valve on the spray-gun anti-clockwise until you have a spray of approximately 30mm in width.

CANISTER MAINTENANCE GUIDE


Once work has been completed, ensure the valve on the canister remains open. Failure to do this may cause the adhesive to block the hose.

01.		Turn the spray-gun off by turning the black valve clockwise until it is fully closed.
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CANISTER FLUSHING SYSTEM

01.		Ensure the valve on the canister is completely turned off before attaching the assembly.
02.		Unscrew the hose from the canister valve.
03.		Attach the assembly to the valve. Ensure the assembly remains upright whilst you tighten the nut on it. Attach the hose to the assembly. Ensure the assembly remains upright whilst you tighten the hose.
03.		Check the tap on the assembly is off before applying the Sika Spray Cleaner. Screw the Sika® Spray Cleaner into the hose and open the red valve.
04.		Aiming the gun into a waste container, apply pressure to the trigger on the gun to push Sika® Spray Cleaner through the hose and gun until the adhesive starts to dispense. Keep pressure on the trigger until the hose and gun are thoroughly cleaned.

CANISTER DISPOSAL SYSTEM

01.		<p>The Sika® C-250 Spray canister contains compressed gas. It should be emptied by carefully opening the valve, which will release any excess adhesive and/or pressure.</p> <p>Allow any excess adhesive and/or pressure to fully escape into a suitable container. Leave the valve open.</p> <p>Once the canister is empty and completely depressurized, the circular disk can be pierced using a non-ferrous bar/rod.</p> <p>Allow any remaining adhesive to cure. The empty depressurized canister should be disposed/recycled in accordance to site regulation.</p>
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TOOL CLEANING	<p>Tools and equipment must be cleaned with Sika® Spray Cleaner or L -100 Cleaner immediately after use.</p> <p>The hose and application gun can be cleaned with the flush adaptor and Sika® Spray Cleaner.</p>
INSTALLATION	<p>Installation works to be carried out only by Licensed Sika-Troacl® Roofing Contractors.</p> <p>Temperature limits for the installation of the adhesive:</p> <ul style="list-style-type: none"> ▪ Substrate temperature: At least +5 °C ▪ Ambient temperature: At least +5 °C <p>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.</p> <p>Special measures may be compulsory for installation below +5 °C ambient temperature due to safety requirements in accordance with national regulations.</p>
VALUE BASE	<p>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.</p>
LOCAL RESTRICTIONS	<p>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.</p>
HEALTH AND SAFETY INFORMATION	<p>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.</p>
LEGAL NOTES	<p>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. It may be necessary to adapt the above disclaimer to specific local laws and regulations.</p>