

PRODUCT DATA SHEET

Sika® C-250 Spray

POLYURETHANE SPRAY APPLIED INSULATION ADHESIVE FOR SARNAFIL® ROOFING SYSTEMS

PRODUCT DESCRIPTION

Sika® C-250 Spray is a 1-part, polyurethane based, moisture-curing, spray applied insulation adhesive in a pressurised canister system.

USES

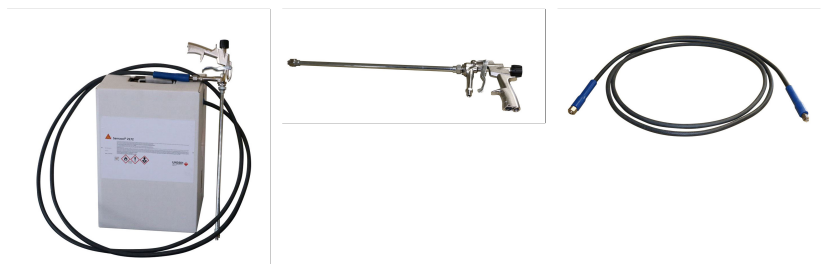
- Sprayable adhesive to bond suitable thermal insulation boards to specific substrates

CHARACTERISTICS / ADVANTAGES

- Quick adhesive application using pressurised canister and spray gun
- Adheres to solid, rough and clean surfaces

PRODUCT INFORMATION

Chemical Base	Polyurethane moisture-curing	
Packaging	Packaging unit	Single canister 23,7 kg (adhesive 17,6 kg)
	Packaging dimensions	Cardboard box 320 mm × 320 mm × 460 mm



Refer to current price list for packaging variations

Appearance / Colour	Colour	green
Shelf Life	12 months from date of production	
Storage Conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +25 °C. Always refer to packaging.	
Consistency	Foaming liquid	

SYSTEM INFORMATION

Compatibility

SUITABLE INSULATIONS

- SarnaTherm G/PIR insulation boards with lamination (glass or mineral fibre fleece)
- Mineral fibre boards with sufficient compressive strength and appropriate surface bonding

SUITABLE SUBSTRATES

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

APPLICATION INFORMATION

Consumption	~130–260 g/m ² . Adhesive bead widths ~30 mm Adhesive bead spacing: ~250 mm in the central zone. ~165 mm in the perimeter zone. One single canister covers ~140 m ² applied in the central zone. These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc.
Ambient Air Temperature	At least +5 °C
Substrate Temperature	At least +5 °C
Open Time	(+20 °C) 1-4 minutes
Curing Time	(+20 °C) 15 minutes

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The supporting structure must be of sufficient structural strength to apply all new and existing layers of the roof build-up. Complete roof system must be designed and secured against wind uplift loadings. The substrates must be solvent resistant, uniform, firm, clean, dry, free of grease, bitumen, oil, dust and loosely adhering particles.

SUBSTRATE PREPARATION

Use the appropriate preparation equipment to achieve the required substrate quality

APPLICATION

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

Canister and spray-gun set-up

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



1. Remove the black cap from the canister valve.



2. 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.



3. 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, as it is not to be used with Sika® C-250 Spray



4. Fully open the valve on the canister



5. Pull the trigger on the spray-gun to apply adhesive.



6. Adjust the flow and pressure by turning the black valve on the spray-gun anti-clockwise until a foam bead of ~30mm in width is achieved

The pressure and flow of the adhesive is 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.

The end of the spray gun will require cleaning at intervals to maintain consistency of bead profile.

Central zones

Spray 4 continuous beads of adhesive per metre (250 mm centres) in parallel straight lines with a foam bead width of ~30 mm (130 g/m²).

Perimeter zones

Spray 6 continuous beads of adhesive per metre (166 mm centres) with a foam bead width of ~30 mm (195 g/m²).

Insulation board application

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. When bonding insulation boards, it is recommended that periodic checks are carried out to ensure the adhesive beads have been squeezed flat. Do this by gently lifting the insulation board at the leading edge. This is especially important on very uneven substrates.

CLEANING OF TOOLS

Tools and equipment must be cleaned with Sika® Spray Cleaner or Sarna Cleaner immediately after use. The hose and application gun can be cleaned with the flush adaptor and Sika® Spray Cleaner.

MAINTENANCE

Canister and spray-gun 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.

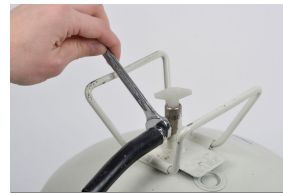


1. Turn the spray-gun off by turning the black valve clockwise until it is fully closed.

Canister flushing system



1. Ensure the valve on the canister is completely turned off before attaching the assembly.



2. Unscrew the hose from the canister valve.



3. Attach the assembly to the valve. Ensure the assembly remains upright whilst the nut is tightened. Attach the hose to the assembly. Ensure the assembly remains upright whilst the hose nut is tightened



4. Check the tap on the assembly is off before applying the Sika Spray Cleaner. Screw the Sika® Spray Cleaner canister into the top of the assembly and open the red valve.



5. Aim the spray-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 system disposal



1. The Sika® C-250 Spray canister contains compressed gas. It must be emptied by carefully opening the valve, which will release any excess adhesive and/or pressure. Allow any excess adhesive and/or pressure to fully escape into a suitable container. Leave the valve open. Once the canister is empty and completely depressurised, the circular disk can be pierced using a non-ferrous bar/rod. Allow any remaining adhesive to cure. The empty depressurised canister should be disposed/recycled in accordance with local disposal regulations.

FURTHER DOCUMENTS

- Product Data Sheets: Applied insulation boards

LIMITATIONS

Installation work must only be carried out by Sika® trained and approved contractors, experienced in this type of application.

- The spray tip or gun used with other Sika® spray products must not be used with Sika® C-250 Spray.
- The canister and gun will remain usable for 2 weeks after opening. If it is not intended to use the system within this time, the adhesive in the hose and gun must be renewed by purging ~250ml of adhesive through the system every 2 weeks.
- If the system is not going to be used within 2 weeks, it is recommended to flush the gun and hose with the Sika Canister Flushing System. Once canister is empty, the gun/hose can be transferred to a new adhesive canister.
- Installation of some ancillary products, e.g. contact adhesives / cleaners is limited to temperatures above +5 °C. Observe temperature limitations in the appropriate Product Data Sheets.
- Special measures may be compulsory for installation below +5 °C ambient temperature due to safety requirements in accordance with national regulations.

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Product Data Sheet

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VALUE BASE

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

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

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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