

PRODUCT DATA SHEET

SikaRoof® Board Adhesive

1-part polyurethane foam adhesive for bonding insulation boards

DESCRIPTION

SikaRoof® Board Adhesive is a 1-part polyurethane, fast curing, gun grade foam adhesive. It is used to bond insulation boards to various types of construction material substrates.

USES

The Product is used with these insulation board types:

- Expanded polystyrene boards (EPS)
- PUR / PIR boards
- Mineral fibre boards

The Product can be used to bond the following substrates:

- Concrete
- Oriented fibre strand boards (OSB), plywood panels, timber boards
- Fibre cement boards
- Mineral or sand-surfaced bitumen

- Galvanized or coated steel and zinc metal
- Vapour barrier (Sarnavap® 5000 E SA)

FEATURES

- Easy, efficient and clean application
- One container covers an area of up to 16 m²
- Fast moisture curing for quick bonding
- Fire Behaviour class B1 (DIN 4102-1)
- Good adhesive tensile strength
- HFC-free

SUSTAINABILITY

- VOC emission classification GEV-Emicode EC1^{PLUS}

CERTIFICATES AND TEST REPORTS

- Fire Behaviour, DIN 4102-1, MPA No. P-NDS04-1373

PRODUCT INFORMATION

Composition	1-part polyurethane	
Packaging	Metal pressurised can	750 ml
	Packing unit	Carton with 12 cans
Shelf life	15 months from the date of production. Opened containers of SikaRoof® Board Adhesive must be used within 2 weeks.	
Storage conditions	The product must be stored in original, unopened and undamaged packaging in an upright position in dry conditions at temperatures between +5 °C and +25 °C. Always refer to packaging.	
Density	20.0 kg/m ³	(FEICA TM 1019)

TECHNICAL INFORMATION

Tensile strength	7.0 N/cm ²	(FEICA TM 1018; EN 17333-4)
Tensile strain at break	(14 ± 5) %	(FEICA TM 1018; EN 17333-4)
Shear strength	3.0 N/cm ²	(FEICA TM 1012; EN 17333-4)
Reaction to fire	Class B1	(DIN 4102-1) (MPA abP Nr. P-NDS04-1373)
Thermal conductivity	0,036 W/mK	
Service temperature	Maximum	+80 °C (short term up to +100 °C)
	Minimum	-40 °C

APPLICATION INFORMATION

Yield	750 ml can	48 linear metres (approx. 16 m ² per can at 3 beads per m ²)
Yield is estimated for 3 cm diameter strand. Consumption can be regulated by adjusting the pressure on the spray application gun trigger or by tightening or loosening the screw of the spray application gun.		
Ambient air temperature	Optimum	+20 °C
	Maximum	+40 °C
	Minimum	+5 °C
Relative air humidity	Maximum	95 %
	Minimum	30 %
Substrate temperature	Optimum	+20 °C
	Maximum	+45 °C
	Minimum	+5 °C
Curing time	Fully cured after 12 hours. Curing time depends on the humidity and substrate moisture content.	
Cutting time	(30 ± 5) minutes	(FEICA TM 1005)
Tack free time	3—4 minutes	

BASIS OF PRODUCT DATA

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

IMPORTANT CONSIDERATIONS

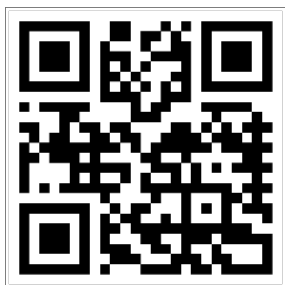
- Do not use on polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE/Teflon), silicone, oil, grease and other separating agents.
- SikaRoof® Board Adhesive is not resistant to UV light
- Ensure cans of SikaRoof® Board Adhesive are kept cooler than +50 °C to avoid risk of bursting.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

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.



APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

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 affect adhesion of the adhesive. All dust, loose and friable material must be completely removed from all surfaces before application of adhesive. Damp surface is acceptable however wet, saturated substrate or standing water should be avoided. The Product adheres without primers or activators. Test bonding should always be carried out.

APPLICATION

Before use, shake the can vigorously about 30 times to ensure proper mixing of the contents and to optimize adhesive performance. After longer work interruptions, shake the can again. Turn the can upside down and screw it firmly and vertically onto the gun adapter. The output can be adjusted using the control screw on the foam gun. During application, hold the gun so that the can remains as vertical as possible to maximize yield. Maintain a distance of approximately 2–3 cm between the gun nozzle and the substrate during dispensing.

Apply the insulation boards promptly after applying the foam adhesive and press them firmly into place. Avoid allowing the adhesive bead to form a skin before pressing the insulation into position. Position corrections can be made within the skin formation time (approx. 3–4 minutes). Do not walk on the installed insulation boards until the adhesive has fully cured.

The reaction time of SikaRoof® Board Adhesive depends on ambient humidity; therefore, it is recommended to perform a trial application before starting work to determine the exact reaction time under the given conditions.

When bonding thermal insulation boards (including multiple layers), always follow the manufacturer's specific instructions for the insulation material.

In the case of uneven substrates, the amount of adhesive per linear meter must be increased accordingly. For each square meter of bonding area, at least **three continuous adhesive beads** with a **minimum diameter of 30 mm** are required. It is recommended to determine the necessary number of adhesive beads by means of a **project-specific verification** in accordance with **DIN EN 1991-1-4**, taking into account factors such as wind zone, terrain category, building geometry, roof areas, and the materials to be bonded. If no project-specific verification is available, the bonding may be carried out in accordance with the Flat Roof Guideline, section 2.6.3.3 and Table 1.

Roof Area	Number of Adhesive Beads
Interior Area (I)	4 beads per m ²
Inner Perimeter Area (H)	5 beads per m ²
Outer Perimeter Area (G)	6 beads per m ²
Corner Area (F)	8 beads per m ²

CLEANING OF EQUIPMENT

Clean all tools and application equipment immediately with Sika® Boom Cleaner. If application gun is not cleaned properly, it will be blocked and unfit for next application.

DISPOSAL

Empty cans must be disposed of in accordance with national regulations. In Germany, collection of cartons containing empty cans is carried out by PDR. Further information can be found on the label and/or on the outside of the carton.

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.

PRODUCT DATA SHEET

SikaRoof® Board Adhesive
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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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