

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:

- Extruded polystyrene boards (XPS)
- Expanded polystyrene boards (EPS)
- PUR / PIR boards
- Mineral fibre boards with sufficient compressive strength and an appropriate type of bonding surface

The Product can be used to bond the following substrates:

- Concrete, lightweight 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)

CHARACTERISTICS / ADVANTAGES

- Easy, efficient and clean application with a spray application gun
- One container covers an area of up to 18 m²
- Fast moisture curing for quick bonding
- Fire Behaviour class B1 (DIN 4102-1)
- Good adhesive tensile strength
- Adheres to solid, clean, dry or slightly damp surfaces
- HFC-free

ENVIRONMENTAL INFORMATION

- VOC emission classification GEV-Emicode en SikaRoof® Board Adhesive

APPROVALS / STANDARDS

- Fire Behaviour, DIN 4102-1, SikaRoof® Board Adhesive, MPA, No. P-NDS04-1373

PRODUCT INFORMATION

Chemical base	1-part polyurethane	
Packaging	Metal pressurised can	750 ml
	Packing unit	Carton with 12 cans or single can
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)
Elongation at break	(14 ± 5) %	(FEICA TM 1018; EN 17333-4)
Shear strength	3.0 N/cm ²	(FEICA TM 1012; EN 17333-4)
Service temperature	Maximum	+80 °C
	Minimum	-40 °C
(short term up to +100 °C)		
Reaction to fire	DIN 4102 - Part 1: Class B1. Reaction to fire tests - Ignitability of building products subjected to direct impingement of flame.	(DIN 4102-1)

APPLICATION INFORMATION

Yield	0.75 L 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 24 hours. Curing time depends on the humidity and substrate moisture content.	
Tack free time	3—4 minutes	
Cutting time	(30 ± 5) minutes	(FEICA TM 1005)

BASIS OF PRODUCT DATA

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.

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.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Substrate must be sound and offer sufficient structural properties to resist the forces generated by wind suction.

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.

MIXING

Ready to use product. Shake well for 1 minute before use.

APPLICATION

IMPORTANT

SikaRoof® Board Adhesive must be applied according to the requirement of wind-load zones. Roof wind-load must not exceed 2.4 kN/m². For wind-load zones above 2.4 kN/m² contact Sika technical service for further advice.

Theoretical number of beads for a flat surface.

Middle zone	3 beads per m ²
Perimeter zone	4 beads per m ²
Corner zone	5 beads per m ²

The actual number of adhesive beads required may vary depending on wind-load calculations.

On trapezoidal metal clad substrates use a minimum of one adhesive bead per crown except for when using mineral wool insulation boards where a minimum of two beads per crown must be used.

1. Shake the can well for 30 seconds, approx. 20 times.



2. Remove small black lid from the top of the can.



3. Screw SikaRoof® Board Adhesive can into Spray Application Gun



4. Apply the flat nozzle to the end of the Spray Application Gun.



5. SikaRoof® Board Adhesive is ready to use. The amount of expanding foam can be adjusted by applying more or less pressure on the trigger.



CLEANING OF TOOLS

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.

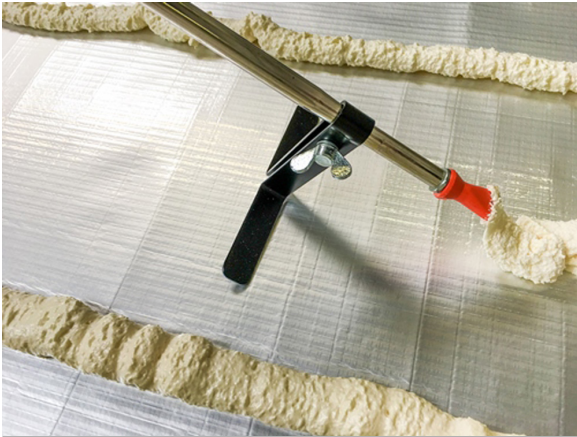
LOCAL RESTRICTIONS

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 exact product data and uses.

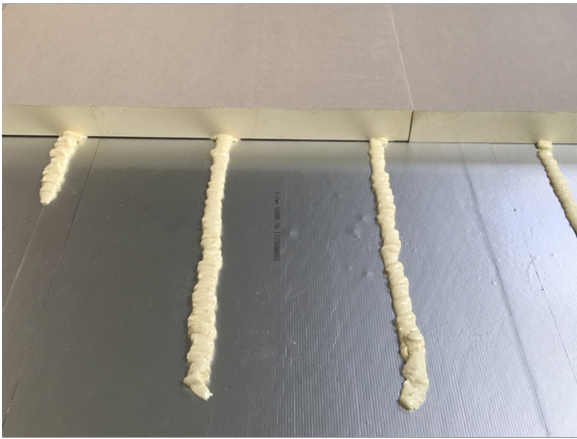
LEGAL NOTES

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.

6. Apply SikaRoof® Board Adhesive directly onto the surface, then quickly press the insulation panel onto the flat roof with light pressure and adjust. Use the spacer to ensure right distance between the nozzle and a substrate.



7. Apply the appropriate amount of SikaRoof® Board Adhesive according to the roof wind-load zone requirements.



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