BUILDING TRUST

PRODUCT DATA SHEET

Sika® RoofBond

Polyurethane foam adhesive to bond insulation boards

PRODUCT DESCRIPTION

Sika® RoofBond is a polyurethane 1- part, fast curing, gun grade, foam adhesive that bonds insulation boards to various types of construction material substrates.

USES

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

Bonding 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 spray application gun
- One container covers an area of up to ~13 m²
- Fast moisture curing for quick bonding
- Fire Behaviour B2 class (DIN 4102-1)
- Good adhesive tensile strength
- Adheres to solid, clean, dry or slightly moist surfaces
- HFC-free

ENVIRONMENTAL INFORMATION

VOC emission classification GEV-EMICODE EC 1PLUS

APPROVALS / STANDARDS

- Fire Behaviour, DIN 4102-1, Sika RoofBond, MPA, Certificate No. 0672

PRODUCT INFORMATION

Chemical Base	1-Part Polyurethane	
Packaging	Metal pressurised can	750 ml
	Packing unit	Carton with 12 cans or single can
Appearance / Colour	Light yellow foam	
Shelf Life	15 months from the date of production. Opened containers of Sika® RoofBond must be used within 2 weeks.	
Storage Conditions	The product must be stored in original, unopened and undamaged sealed packaging in an upright position in dry conditions at temperatures between +5 °C and +25 °C. Always refer to packaging.	
Density	~ 36,00–40,80 kg/m³ (without - with nozzle)	

TECHNICAL INFORMATION

Tensile Strength	0,08–0,19 N/mm²	(ISO 1926)
Shear Strength	0,06–0,07 N/mm²	(ISO 1922)
Reaction to Fire	DIN 4102 - Part 1: Class B2. Reaction to fire tests - Ignitability of building products subjected to direct impingement of flame.	
Service Temperature	–40 °C min. / +80 °C max. (short term up to +100 °C)	

APPLICATION INFORMATION

Yield	0,75 L can	~ 13 m²
	Yield is estimated for 3 cm diameter strand and 3 strands per m^2. 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
	Permissable	+5 °C / +35 °C
Relative Air Humidity	30 % min. / 95 % max.	
Substrate Temperature	Optimum:	+ 20 °C
	Permissable:	+ 5 °C / +35 °C
Curing Time	Fully cured after 24 hours. Curing time depends on the humidity and substrate moisture content	
Cutting Time	40 (±5) minutes	
Tack Free Time	30 (±5) minutes	

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.

LIMITATIONS

- Do not use on polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE/Teflon), silicone, oil, grease and other separating agents.
- Sika® RoofBond is not resistant to UV light.

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.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

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

SUBSTRATE PREPARATION

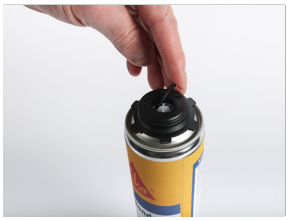
The substrate must be clean, and free of all contaminants such as dust, dirt, oil, grease, cement laitance and poorly bonded paint coatings which could affect adhesion of the adhesive.
All dust, loose and friable material must be completely removed from all surfaces before application of adhesive.
Damp surface is acceptable however wet, saturated substrate or standing water should be avoided.
Sika® RoofBond adheres without primers or activators.

MIXING

Ready to use product.

APPLICATION

1. Shake the can well approx. 30 times.



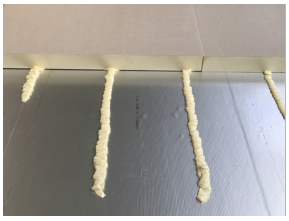
2. Remove small black lid from the top of the can.

3. Screw Sika® RoofBond can into Spray Application Gun.

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

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

6. Apply Sika® RoofBond 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 Sika® RoofBond according to the roof wind-load zone requirements.

Sika® RoofBond must be applied according to the requirements of the wind-load zones. Wind load must not exceed 2,4 kN/m².
Advisable application of product:

- Middle zone: 3 beads / m
- Perimeter zone: 4 beads / m
- Corner zone: 5 beads / m
- On trapezoidal metal clad min. one strip per crown

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 the 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.

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