

PRODUCT DATA SHEET

Sika Boom[®]-521 FoamFix

FAST CURE, VERY LOW EXPANSION, GUN APPLIED POLYURETHANE FOAM FOR BONDING INSULATION BOARDS, PLASTERBOARDS AND JOINERY FITTING

DESCRIPTION

Sika Boom[®]-521 FoamFix is a one-part, very low expansion, fast curing, gun applied PU foam. It is especially recommended for heat insulation systems.

USES

Sika Boom[®]-521 FoamFix is easy to use for plasterboards and the following insulation materials:

- Extruded polystyrene boards (XPS)
- Styrofoam – Expanded polystyrene board (EPS)
- Wood fibre boards
- Cork boards
- PUR/PIR boards

It is also used for:

- Mounting heat insulation panels and filling voids during adhesive application
- Bonding wooden type construction materials to concrete, metal, e.t.c.
- All application types requiring minimum expansion
- For mounting and isolation of window and door frames

CHARACTERISTICS / ADVANTAGES

- Up to 14 m² heat insulation panels can be bonded per can.
- Good adhesion to concrete, wood, brickwork, plaster, metal and PVC
- Fast curing
- Good adhesive tensile strength
- Useable for indoor and outdoor applications
- Suitable for vertical and horizontal applications
- HFC-free
- Powerful adhesion of polystyrene heat panels (XPS and EPS)
- Instant adhesion and wall plugging within two hours.
- Highly economical. Ready to use in aerosol can.
- Minimum expansion during drying period.
- After full cure, no further expansion and shrinkage take place.
- Lighter material compared to plaster & alternative materials used in heat insulation systems
- No more extra burden or weight during application process
- High yield up to 55 liters, depending on the humidity and temperature
- Fire Class: E (EN 13501-1), B2 (DIN 4102)
- Usable at low temperatures (0 °C)
- It does not contain any propellant gases which are harmful to the ozone layer.

APPROVALS / CERTIFICATES

Reaction to fire:

- Class E (EN 13501-1)
- Class B2 (DIN 4102)

PRODUCT INFORMATION

Composition	1-part Polyurethane, moisture curing
Packaging	900 gr cans (800ml) (12 cans per box)
Colour	Light pink

Shelf life	12 months from date of production	
Storage conditions	Store in undamaged, original, sealed containers, in dry conditions and protected from direct sunlight at temperatures between +10°C and +23°C. Storage above +30 °C and below +5 °C shortens shelf life. The can has to be stored in a vertical position! An opened can must be used within about 4 weeks.	
Density	21±3 kg/m ³	
Compressive Strength	~ 0,03 N/mm ² (at 23°C / 50% r.h.)	(DIN 53 421)
Tensile Strength	7,6 N/cm ²	
Elongation at Break	13%	
Reaction to Fire	Class E Class B2	(EN 13501-1) DIN 4102
Water Absorption	max. 1% by volume (DIN 53428)	
Thermal Conductivity	~0.036 W/mK (at 23°C / 50% r.h.)	(DIN 52 612)
Service Temperature	-40°C to +100°C	

APPLICATION INFORMATION

Consumption	Consumption can be regulated by adjusting the pressure valve of the Sika® Dispenser gun. ~ 14 m ² for Styrofoam plate fixing ~ 40 m for bead cross-section 30x30mm	
Yield	Volume (packaging) 800 ml can	Yield (L) 50 - 55 (ASTM C1536)
Ambient Air Temperature	Optimum handling temperature: +20°C Permissible handling temperatures: +5°C min. / +30°C max.	
Relative Air Humidity	Between 30% and 95%	
Substrate Temperature	+5°C min. / +30°C max.	
Curing Time	Full cure after 24 hours (at 23°C / 50% r.h.)	
Cutting Time	Width 1 cm	Cutting time (min) 20-45 (ASTM C1620)
Tack free time	6±2 minutes (ASTM C1620)	

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Substrate must be clean, homogeneous, free from oils and grease, dust and loose or friable particles. Pre-dampen the substrate with clean water, this ensures that the foam cures optimally and prevents secondary foam expansion.

APPLICATION METHOD / TOOLS

Application and substrate temperature should be +5°C to +30°C. Shake can well for about 20 seconds before using Sika Boom®-521 FoamFix and repeat shaking after long interruptions. Turn the can upside down and screw it onto the valve of the Sika® Dispenser gun. Apply at least 3 beads onto the insulation board or directly onto the substrate. The amount of foam can be regulated with Sika® Dispenser gun through the trigger

and screw at the back of the applying gun. Keep the can upright during spraying. After applying Sika Boom®-521 FoamFix onto the board or substrate, wait for about 4-6 minutes before you press the insulation board against the substrate (the foam needs some time to react). Curing time of the rapid fixing foam depends on temperature and humidity conditions. Therefore it is recommended to test the specific curing time before the final application.

If necessary fill the gaps between edges of panels using Sika Boom®-521 FoamFix. Once cured excess foam can be cut away with a knife or ground away with a rasp.

CLEANING OF EQUIPMENT

The Sika® Dispenser gun must be cleaned with Sika Boom®-Cleaner or acetone right after use. Hardened / cured material can only be mechanically removed.

IMPORTANT CONSIDERATIONS

- The can temperature has to be +5°C min. and +30°C max. For optimum application of the product the can temperature should be +20°C.
- Protect the can from direct sun and temperatures above +50°C (danger of explosion).
- The can should be kept in room temperature for at least 12 hours before the application.
- The cans should be stored and transported in vertical position.
- Do not use on PE, PP, Teflon, silicone and other separating agents
- Foam is not resistant to UV light
- Paint or coat the cured foam for best results in outdoor applications.
- Lower temperatures decrease yield and prolong curing time.
- Read the safety and technical recommendations printed on the can.

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.

LOCAL RESTRICTIONS

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.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

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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