



PRODUCT DATA SHEET

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SPRAYED FOAM AIR BARRIER

Sika Boom®-130 FB

POLYURETHANE FIRE-RESISTANT FOAM

Description	Sika Boom®-130 FB is a one-component, moisture-curing, low-expansion, polyurethane fire-resistant foam featuring a fire resistance up to 217 minutes.
Where to Use	All applications where fire-retardant properties are required such as: ▪ Filling and sealing gaps, joints and cavities ▪ Sealing around service penetrations, electrical outlets, plumbing elements, etc. ▪ Sealing around penetrations through floors and runs through stud walls ▪ Sealing around pipes and ducts penetrations through floors and walls
Advantages	▪ Fire resistance up to 217 minutes (EN 1366-4) ▪ Efficient seal against smoke and gas ▪ Does not contain CFC's and H-CFC's ▪ Low expansion polyurethane insulating foam sealant fills, seals and insulates gaps up to 25 mm (1 in) ▪ Excellent filling capacity ▪ High yield ▪ High thermal & acoustical insulation values ▪ Foam may be painted, cut, trimmed after cure ▪ Mould and water resistant
Standards	▪ Tested according to EN 1366-4 fire resistance of linear joints in various joint combinations ▪ Conforms to fire class B1 (DIN 4102) requirements

Technical Data				
Packaging	Net weight: 455 g/16 oz - Gross weight: 570 g/20 oz can / 12 cans per case			
Colour	Orange			
Yield	Approx. 25 L - Depending on temperature and humidity			
Shelf Life	9 months from date of production, whens stored properly in undamaged, original, sealed packaging. Store in upright position, dry conditions, protected from direct sunlight and at temperatures between 5 and 25 °C.			
Properties				
Chemical Base	Polyurethane Prepolymer			
Curing Mecanism	Moisture-curing			
Density	19 ± 3 kg/cm³ (ASTM D1622)			
Compressive strength	0.03 MPa			
Expansion ratio	260 - 280 %			
Shrinkage	0 %			
Tack-Free time (10 mm width)	7 ± 3 min (ASTM C1620)			
Cutting Time (10 mm width)	30 - 45 min (ASTM C1620)			
Cure Time	24 hours			
Water Absorption (vol.)	1 % max. (DIN 53428)			
Thermal Conductivity	0.036 W/m.k (at 20 °C)			
Service Temperature	-40 to 90 °C			
Application Temperature	5 to 30 °C			
Fire Class of Cured Foam	B1 (DIN 4102) - Not easily flammable			
Flammability/ Fire Rating	Flame Spread Rate (FSR): 20			
CAN/ULC-S102-10 (UL File no R38267)	Smoke Developed Classification (SDC): 55			
VOC Content	< 2 g/L			
Test Results –Efectis ERA Global; EN 1366-4	Wall Thickness	Joint Dimension	Backing Material	Fire Resistance in minutes
	200 mm	Width: 10 mm - Depth: 200 mm	None	217 min (Fire rating EI 180)
	200 mm	Width: 30 mm - Depth: 200 mm	None	147 min (Fire rating EI 120)
	100 mm	Width: 20 mm - Depth: 100 mm	None	64 min (Fire rating EI 60)
	100 mm	Width: 10 mm - Depth: 100 mm	None	80 min (Fire rating EI 60)

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

HOW TO USE

Surface Preparation

The substrate must be clean, sound and homogeneous, free from oils, grease, dust and loose or friable particles. Paint, cement laitance and other poorly adhering contaminants must be removed. Sika Boom®-130 FB adheres without primers and/or activators. Dampen the substrate with clean water before application, as this ensures that the foam will cure properly, and will prevent secondary foam expansion.

Application

Turn the can upside down and screw the straw adapter firmly into place without pressing the valve. Shake Sika Boom®-130 FB can well for about 60 seconds before use. The output of the foam can be regulated by applying more or less pressure on the valve/adapter. For better results, the temperature of the can and the room temperature should be between 20 and 25 °C.

Note: Sika Boom®-130 FB can only be used in the upside down position; failure to invert the can will prevent the foam from dispensing properly.

Fill holes and cavities to approximately 30 % of their volume to provide room for foam expansion. All building elements must be temporarily fixed until the foam has fully cured.

Clean Up

Clean all tools and application equipment immediately with Sika Boom® PRO Cleaner. Uncured material may be removed from substrates and tools with Sika® Hand Cleaner. Once cured, residual material can only be removed mechanically. Refer to Sika Boom® PRO Cleaner product data sheet for further information.

Limitations

- Storage above 25 °C and below 5 °C will shorten shelf life.
- Sika Boom®-130 FB can only be used in the upside down position; failure to invert the can will prevent the foam from dispensing properly.
- Do not store cans in direct sunlight. Do not expose cans to temperatures greater than 50 °C.
- Should be stored and transported in vertical position.
- Should be kept in room temperature for at least 12 hours before the application.
- Cured foam will discolour if exposed to ultraviolet light.
- Lower temperatures decrease yield and curing time.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN

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, within their shelflife. 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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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