

BUILDING PRODUCT INFORMATION SHEET

Sika Boom[®] FR

Fire-retardant polyurethane foam

DESCRIPTION

Sika Boom[®] FR is a 1-component, fast curing, gun applied polyurethane foam retarding fire up to 5 hours.

USES

Sika Boom[®] FR is designed for linear joints in brickwork and concrete where fire protection is required.

FEATURES

- 1-Component
- Easy application with application gun
- Fast curing

PRODUCT INFORMATION

Product identifier	Sika Boom [®] FR
Place of manufacture	Overseas
Composition	1-Component polyurethane
Packaging	750 ml can with rubber valve, and threaded gun attachment. 12 cans per box
Shelf life	Sika Boom [®] FR has a shelf life of 12 months from the date of production, if stored properly in undamaged, original, sealed packaging, and if the storage conditions are met. Opened cans of Sika Boom [®] FR must be used within 4 weeks.
Storage conditions	Sika Boom [®] FR shall be stored in an upright position, in dry conditions, protected from direct sunlight and at temperatures between +5 °C and +25 °C.
Colour	Pink
Density	~21 kg/m ³

TECHNICAL INFORMATION

Compressive strength	~0.06 N/mm ² (with 10 % deformation)	(ISO 844)
Tensile strength	~0.11 N/mm ²	(ISO 1926)
Shear strength	~0.05 N/mm ²	(ISO 1922)
Dimensional stability	± ~10 %	
Thermal conductivity	~0.039 W/mK	(EN 12667)

- Very good thermal insulation
- Effective sound dampening
- HFC-free

LIMITATIONS OF USE

Sika is not responsible for the design of any joints or details in building elements or systems requiring a fire resistance rating (FRR)

APPROVALS / CERTIFICATES

- DIN 4102: B1 fire rating class
- BS 476-20: fire rated up to 5 hours fire protection

Sound insulation	$R_{ST,w} (C; C_{tr}) = 61 (-1; -5) \text{ dB}$	(ift SC-01/2)
Service temperature	-40 °C min. / +80 °C max. (temporary exposure up to +100 °C)	
Water absorption	< 1 % of volume (cut surface)	(DIN EN 12087)
Joint permeability to water vapour	$\mu = 19, s_d = 1.1 \text{ m} (d = 59 \text{ mm}, \rho = 14 \text{ kg/m}^3)$	(ISO 12572)

APPLICATION INFORMATION

Yield	750 ml can	~38 l
	Consumption can be regulated by adjusting the pressure on the trigger or by tightening or loosening the screw of the application gun.	
Ambient air temperature	Optimum	+18 °C min. / +25 °C max.
	Permissible	+5 °C min. / +35 °C max.
Relative air humidity	30 % min. / 95 % max.	
Substrate temperature	Optimum	+18 °C min. / +25 °C max.
	Permissible	+5 °C min. / +35 °C max.
Cutting time	~23 min (after which a 20 mm bead can be cut). Sika Boom® FR is fully cured after 12 h.	
Tack free time	~11 min	

MANUFACTURER AND IMPORTER INFORMATION

Manufacturer information	Address	Sika Deutschland GmbH Kornwestheimer Strasse 103-107, 70439 Stuttgart, Germany
Importer information	Address	Sika (NZ) Limited 85-91 Patiki Road Avondale, Auckland 1026 New Zealand
	Phone number	0800 745 269
	Website	https://nzl.sika.com/
	Email address	info@nz.sika.com
	NZBN	9429000018791

BUILDING CODE INFORMATION

Building Code clauses	B2 Durability: Performance clause B2.3.1 - (b) 15 years C3 Fire Affecting Areas Beyond the Fire Source. Performance clauses C3.1, C3.2, C3.3 F2 Hazardous Building Materials: Performance clause F2.3.1
Building Code compliance statements	Performance B2.3.1 (b) 15 years: This product has been evaluated in accordance with B2/VM1. It meets this durability requirement and will remain serviceable for 15 years, or more, when installed and maintained in accordance with the relevant Sika technical literature. nzl.sika.com. According to Sika's "Service Improvement" records, maintained within its ISO9001:2015 Quality Management System, this product has performed successfully since it was introduced in 2007.

Performance C3.1, C3.2, C3.3: This product has been fire tested in various combinations of sealed joints and /or penetrations with different dimensions and different building components. It contributes to meeting the requirements of C3 only when used in these tested combinations. All fire-rated joints must be designed and specified by a registered fire engineer. For more information, such as test certificates, refer to nzl.sika.com

Performance F2.3.1: This product meets this requirement when used and applied in accordance with Sika's installation instructions and does not present a health hazard to people occupying or using the building. Refer to the Sika Product Technical Data sheet and product Safety Data Sheet nzl.sika.com for further information if required

BASIS OF PRODUCT DATA

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

IMPORTANT CONSIDERATIONS

- The minimum can temperature for application must be +10 °C.
- In order to get a good quality foam, the can temperature should not vary more than 10 °C from the ambient temperature.
- Protect the can from direct sunlight and temperatures above +50 °C (danger of explosion).
- For correct curing of the foam, moisture is necessary.
- Applying insufficient moisture may lead to subsequent unintended foam expansion (post expansion).
- Do not fill hollow sections completely as the foam expands during curing.
- Do not use on polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE / Teflon), and silicone, oil, grease and other separating agents.
- Sika Boom® FR is not resistant to UV light.
- Read all safety and technical recommendations which are printed on the Sika Boom® FR can.

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.

APPLICATION INSTRUCTIONS

DESIGN REQUIREMENTS

There are no specific Sika design instructions for this product, when used as a general purpose adhesive. Refer to the product data sheet for general information at nzl.sika.com

SUBSTRATE 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® FR adheres without primers and/or activators. Pre-dampen the substrate with clean water, this ensures that the foam cures properly and also prevents secondary foam expansion.

APPLICATION

Shake the Sika Boom® FR can well for minimum 20 seconds before use. Repeat shaking after long interruptions of use. Remove the small black lid from the Sika Boom® FR aerosol can. Screw Sika Boom® FR onto the valve of the application gun. The amount of expanding foam extruded can be regulated by applying more or less pressure on the trigger or by tightening or loosening the screw of the application gun. Fill deep joints in several layers. Take care to allow each layer to cure and expand sufficiently by spraying water between each layer or allowing sufficient waiting time between the layers. Do not fill hollow sections completely as the foam expands during curing. All building elements must be temporarily fixed until the foam has fully cured.

CLEANING OF EQUIPMENT

Clean all tools and application equipment immediately with Sika Boom®-Cleaner and/or Sika® Remover-208. Once cured, residual material can only be removed mechanically.

MAINTENANCE REQUIREMENTS

For full cleaning instructions refer to the document "Cleaning Instructions: Pulastic, Comfort and Acoustic Floors Part 1" available on www.sika.nz.

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

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Data Sheet for the product concerned, copies of which will be supplied on request. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

The building product/building product line is not subject to warning or ban under section 26 of the Building Act 2004.

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