

PRODUCT DATA SHEET

Sika Boom[®]-420 Fire

FIRE RESISTANT POLYURETHANE EXPANDING FOAM

DESCRIPTION

Sika Boom[®]-420 Fire is a 1-part, fire resistant, self-expanding polyurethane foam. It meets the fire resistance requirements of up to 180 minutes according to AS 1530.4:2014. The combi-valve allows for precise, easy and efficient application by either gun or nozzle.

USES

- Restores the fire resistance performance of a floor or wall which incorporates linear seals
- Interior use only

FEATURES

- Fire resistance up to 180 minutes depending on the configuration
- Combi-valve for gun or nozzle application
- 1-Part ready to use
- Safety valve for extended shelf life
- Cured foam can be cut, trimmed and sanded

SUSTAINABILITY

- VOC emission classification GEV-Emicode EC1^{PLUS}, li-cense number 10376/03.06.13

CERTIFICATES AND TEST REPORTS

- AS1530.4:2014 fire resistance up to 180 minutes.
- CE Marking and Declaration of Performance to ETA 24/0105, based on EAD 350140-00-1106:2017 – Fire stopping and fire sealing products, linear joint and gap seals

PRODUCT INFORMATION

Composition	Polyurethane foam	
Packaging	750 ml pressurised canister with safety valve: 12 canisters per box	
Colour	Pink	
Shelf life	12 months from the date of production.	
Storage conditions	The product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +10 °C and +20 °C. Store in an upright position. Protect the canister from direct sunlight and temperatures above +50 °C (danger of exploding). Always refer to packaging.	
Density	Gun applied cured foam	17±5 kg/m ³
	Nozzle applied cured foam	30±5 kg/m ³

TECHNICAL INFORMATION

Reaction to fire	B1	(DIN 4102-1)
Resistance to fire	Refer to 'Approvals / Certificates' section, Sika Passive Fire Stopping Solution Finder for linears seals or contact Sika Technical Services for specific information.	
Light and thermal resistance	Not permanently UV-stable	
Service temperature	-40 °C min. / +80 °C max. (briefly up to +100 °C)	
Joint design	Refer to 'Approvals / Certificates' section, Sika Fire Stopping Solution Finder for Linear Seals or contact Sika Technical Services for specific information	
Post expansion	Gun applied	~60 %
	Nozzle applied	~160 %

APPLICATION INFORMATION

Yield	750 ml canister:		
	Box Yield	Gun applied	~44 l (FEICA TM 1003)
		Nozzle applied	~30 l
	Joint Yield	Gun applied*	~32 m (FEICA TM 1002)
		Nozzle applied*	~24 m
*Based on a 20 × 50 mm joint			
Material temperature	Optimum	+20 °C	
	Permissible	+5 °C min. / +30 °C max.	
Ambient air temperature	Optimum	+20 °C	
	Permissible	+5 °C min. / +30 °C max.	
Substrate temperature	Optimum	+20 °C	
	Permissible	+5 °C min. / +30 °C max.	
Cutting time	Gun applied:	~25 minutes*	
	Nozzle applied:	~40 minutes*	
*After this time a 30 mm diameter bead can be cut			
Tack free time	7±2 mins		

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.

FURTHER DOCUMENTATION

- Safety Data Sheet

IMPORTANT CONSIDERATIONS

- Limitations regarding dimensions and configurations described in the relevant fire resistance classification reports must be considered.
- Moisture is necessary to cure the foam. Insufficient moisture may lead to subsequent unintended foam expansion (post-expansion).

- Do not use for mechanical or structural fixing purposes.
- Sika Boom®-420 Fire adheres without primers and/or activators to building materials in combination with which fire tests have been carried out.
- Sika Boom®-420 Fire does not bond onto polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE / Teflon), and silicone, oil, grease or release agents.
- The properties of the cured foam will be different between the gun and nozzle application.
- Sika Boom®-420 Fire is not resistant to UV light.

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

SUBSTRATE PREPARATION

The substrate must be clean, sound, firm, free from oils, grease, dust and loose or friable particles. Paint, cement laitance and other poorly adhering contaminants must be removed.

Pre-dampen the substrate with clean water, this ensures that Sika Boom®-420 Fire cures properly and also prevents secondary foam expansion.

APPLICATION

Shake Sika Boom®-420 Fire canister thoroughly (at least 20 times) prior to use, repeat shaking after long interruptions of use. Attach the canister to the application gun or attach nozzle to the canister combi-valve, apply the foam by holding the can and pointing the nozzle into the area of application then applying pressure to the nozzle trigger. The amount of foam applied can be regulated by the pressure applied to the nozzle. Ensure applications in deep voids are applied in layers allowing each layer to fully cure before application of the next layer. Applied foam must be allowed access to sufficient moisture in order to fully cure. Fully cured foam can be cut to shape.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with Sika Boom® Cleaner or Sika® Remover-208 immediately after use. Clean the application gun by screwing Sika Boom® Cleaner onto the thread of the application gun and press the trigger to clean it. Do not leave the Sika Boom® Cleaner screwed on the application gun, as the valve could be damaged. Hardened material can only be mechanically removed.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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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