

## PRODUCT DATA SHEET

# Sika Boom<sup>®</sup>-420 Fire

Fire resistant polyurethane expanding foam for gun and nozzle application

### DESCRIPTION

Sika Boom<sup>®</sup>-420 Fire is a 1-part, fire resistant, self-expanding polyurethane foam. It meets the fire resistance requirements of up to 240 minutes according to EN 1366-4. The combi-valve allows the application by either gun or nozzle.

### USES

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

### CHARACTERISTICS / ADVANTAGES

- Fire resistance up to 240 minutes depending on the joint configuration according to EN 1366-4
- 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

### ENVIRONMENTAL INFORMATION

- VOC emission classification GEV-Emicode EC1<sup>PLUS</sup>, license number 10376/03.06.13

### APPROVALS / STANDARDS

- 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

Chemical Base	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 <sup>3</sup>
	Nozzle applied cured foam	(30 ±5) kg/m <sup>3</sup>

## 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	
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			
Product 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) min			

## 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.

## LIMITATIONS

- 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.

## 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.

## CLEANING OF TOOLS

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 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.

# 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. 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.

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