

## PRODUCT DATA SHEET

# Sika Boom<sup>®</sup>-420 Fire

Fire resistant polyurethane expanding foam for gun and nozzle application

### PRODUCT 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 180 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 180 minutes 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
- VOC emission classification of building materials RTS M1

### APPROVALS / STANDARDS

- CE Marking and Declaration of Performance to ETA 19/0796, 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 Refer to current price list for packaging variations.	
Colour	Red	
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 +5 °C and +25 °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	~17 kg/m <sup>3</sup> (FEICA TM 1019)
	Nozzle applied	~30 kg/m <sup>3</sup>

## TECHNICAL INFORMATION

<b>Expansion</b>	Gun applied	~60 %	(FEICA TM 1010)
	Nozzle applied	~160 %	
<b>Resistance to fire</b>	Refer to 'Approvals / Certificates' section, Sika Passive Fire Protection Handbook or contact Sika Technical Services for specific information		
<b>Light and Thermal Resistance</b>	Not permanently UV-stable		
<b>Service Temperature</b>	-40 °C min. / +80 °C max. (briefly up to +100 °C)		
<b>Joint Design</b>	Refer to 'Approvals / Certificates' section, Sika Passive Fire Protection Handbook or contact Sika Technical Services for specific information		

## APPLICATION INFORMATION

<b>Yield</b>	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			
<b>Product Temperature</b>	Optimum	+20 °C		
	Permissible	+5 °C min. / +30 °C max.		
<b>Ambient Air Temperature</b>	Optimum	+20 °C		
	Permissible	+5 °C min. / +30 °C max.		
<b>Substrate Temperature</b>	Optimum	+20 °C		
	Permissible	+5 °C min. / +30 °C max.		
<b>Cutting Time</b>	Gun applied:	~25 minutes*	(FEICA TM 1005)	
	Nozzle applied:	~40 minutes*		
	*After this time a 30 mm diameter bead can be cut			
<b>Tack Free Time</b>	~6 minutes	(FEICA TM 1014)		

## VALUE BASE

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

## FURTHER DOCUMENTS

- Sika Method Statement: Sika Boom®-420 Fire
- Sika Passive Fire Protection Handbook

## 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

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling. Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

# 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

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 Data Sheet for the product concerned, copies of which will be supplied on request.

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