BUILDING TRUST

PRODUCT DATA SHEET

Sika Boom®-420 Fire

Fire resistant polyurethane expanding foam for gun and nozzle application

DESCRIPTION

Sika Boom®-420 Fire is a 1-part, fire resistant, self-expanding polyurethane foam, which meets fire resistance requirements up to 180 minutes according to AS 1530.4. The combo canister packaging of Sika Boom®-420 Fire allows the application by either gun or nozzle.

USES

Restores the fire resistance performance of a floor or wall which incorporates linear seals – e.g. joints around a fire door

CHARACTERISTICS / ADVANTAGES

- AS1530.4 for fire resistance up to 3 hours.
- Combo canister packaging for gun or nozzle application
- 1-Part ready to use
- Safety valve for extended shelf life
- Can be cut, trimmed and sanded

SUSTAINABILITY

- VOC emission classification GEV-Emicode EC1PLUS, license number 10376/03.06.13
- VOC emission classification of building materials RTS M1

APPROVALS / CERTIFICATES

- AS1530.4 for fire resistance up to 3 hours.

PRODUCT INFORMATION

Composition	Polyurethane foam		
Packaging	750 ml pressurised canister with safety valve: 12 canisters per box Refer to current price list for packaging variations.		
Colour	Pink		
Shelf life	12 months from the date of production.		
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +25 °C. Store in an upright position. Always refer to packaging.		
Density	Gun applied	~30 kg/m³	(FEICA TM 1019)
	Nozzle applied	~17 kg/m³	

TECHNICAL INFORMATION

Post expansion	Gun applied	~60 %	(FEICA TM 1010)

	Nozzle applied	~160 %	(FEICA TM 1010)

Resistance to fire	Refer to “approvals / certificates”, Sika Passive Fire protection handbook or contact Sika technical service 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	

APPLICATION INFORMATION

Consumption	750 ml canister:			
	Box Yield	Gun applied	~44	(FEICA TM 1003)
		Nozzle applied	~30	
	Joint Yield	Gun applied	~32	(FEICA TM 1002)
		Nozzle applied	~24	
Material temperature	The minimum canister temperature for application must be +5 °C and must not exceed +30°C For optimal results, condition the canister to +20 °C.			
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.	
Curing time	Sika Boom®-420 Fire is fully cured after 24 hours			
Cutting time	Gun applied		~45 min	(FEICA TM 1005)
	Nozzle applied		~45 min	(FEICA TM 1005)
Tack free time	~6 min			(FEICA TM 1014)

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 INFORMATION

- Sika Method statement : Sika Boom-420 Fire
- Sika Passive Fire Protection Handbook
- Fire Resistance classification reports

IMPORTANT CONSIDERATIONS

- Limitations regarding dimensions and configurations described in the relevant fire resistance classification reports must be considered
- The minimum canister temperature for application must be >+5 °C.
- For optimal results, condition the canister to +20 °C.
- Protect the canister from direct sunlight and temperatures above +50 °C (danger of exploding).
- Moisture is necessary to cure the foam.
- Insufficient moisture may lead to subsequent unintended foam expansion (post-expansion).
- Do not use Sika Boom®-420 Fire for mechanical or structural fixing purposes.
- Sika Boom®-420 Fire does not bond onto polyethylene (PE), polypropylene (PP), polytetrafluoroethylene (PTFE / Teflon), and silicone, oil, grease or release agents.
- Sika Boom®-420 Fire is not resistant to UV-light.
- The properties of the cured foam differ from gun application to 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. Sika Boom®-420 Fire adheres without primers and/or activators.
Pre-dampen the substrate with clean water, this ensures that Sika Boom®-420 Fire cures properly and also prevents secondary foam expansion.

MIXING

Shake the Sika Boom®-420 Fire canister well for minimum 20 times before use. Repeat shaking after long interruptions of use.

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 clean according to instructions. Do not leave the Sika Boom® Cleaner screwed on the application gun, as the valve could become damaged.
Hardened material can only be mechanically removed.
For cleaning skin use Sika® Cleaning Wipes-100.

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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