



A SIKA BRAND

PRODUCT DATA SHEET

Casco[®] Fire Foam

FIRE RESISTANT POLYURETHANE EXPANDING FOAM FOR GUN AND NOZZLE APPLICATION



DESCRIPTION

Casco[®] Fire Foam is a 1-component fire-resistant self-expanding polyurethane foam. The fire resistance is up to 180 minutes according to EN 1366-4.

USES

- For jointing against wooden frames and concrete structures
- Only for Indoor use

CHARACTERISTICS / ADVANTAGES

- Fire resistance up to 180 minutes according to EN 1366-4
- For gun and nozzle application
- 1-component, ready to use
- Cured foam can be cut, trimmed and sanded

APPROVALS / CERTIFICATES

- CE Marking and Declaration of Performance ETA 19/0795 / EAD 350141-00-1106:2017- Fire Stopping, Fire Sealing & Fire Protective Products. Fire Retardant Products.

PRODUCT INFORMATION

Composition	Polyurethane foam		
Packaging	750 ml		
Colour	Reddish		
Shelf life	12 months, from production date in unopened package		
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 ³	(FEICA TM 1019)
	Nozzle applied	~30 kg/m ³	

TECHNICAL INFORMATION

Post expansion	Gun applied	~60 %	(FEICA TM 1010)
	Nozzle applied	~160 %	
Reaction to fire	Refer to 'Approvals / Certificates' section		
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		

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*	(FEICA TM 1005)	
	Nozzle applied:	~40 minutes*		
*After this time a 30 mm diameter bead can be cut				
Tack free time	~6 minutes	(FEICA TM 1014)		

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 Casco® Fire Foam cures properly and also prevents secondary foam expansion.

APPLICATION METHOD / TOOLS

Some application guns may not be compatible with the valve (danger of leaking). To ensure correct operation, use a Casco approved application gun. For further information on Casco approved application guns, contact Sika Technical Services.

Shake the Casco® Fire Foam canister well for a minimum 20 times before use. Repeat shaking after long interruptions of use.

Gun application

After shaking the canister, remove the cap from the Casco® Fire Foam canister as well as the lid of the ring on top. Screw Casco® Fire Foam onto the thread of the application gun. The amount of foam extruded can be regulated by applying more or less pressure on the gun trigger or by using the application gun flow adjustment screw.

Dispense the foam while holding the can upside down. Fill deep joints in several layers. Allow each layer to expand and harden sufficiently before pre-dampening with water again for next layer application. Only partially fill voids / cavities as the foam expands during curing. Small gaps can be filled using an extension tube, this will however reduce the foam flow rate.

Do not remove the canister from the application gun, unless it is completely empty. Premature removal could lead to foam splashes. Clean the application gun with Casco® Foam Cleaner after use. Removing the canister without thorough cleaning with Casco® Foam Cleaner may damage the application gun.

Nozzle application

After shaking the canister, remove the cap from the Casco® Fire Foam canister and screw the nozzle firmly onto the thread of the valve without pressing the trigger or the valve. The amount of foam extruded can be regulated by applying more or less pressure on the trigger.

Dispense the foam while holding the can upside down. Fill deep joints in several layers. Allow each layer to expand and harden sufficiently before pre-dampening with water again for next layer application. Only partially fill voids / cavities as the foam expands during curing. Small gaps can be filled using an extension tube, this will however reduce the foam flow rate.

CLEANING OF EQUIPMENT

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

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.
- Casco® Fire Foam adheres without primers and/or activators to building materials in combination with which fire tests have been carried out.
- Casco® Fire Foam 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.

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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.

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.

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.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Casco 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 or on the website www.casco.eu.

PRODUCT DATA SHEET

Casco® Fire Foam
June 2020, Version 02.01
020515080000000001