

FIRE FOAM

SOLVENTS AND DEGREASERS

- **B1 formulation (reaction to fire)**
- **Tested according to 13501-2**
- **Fast processing**
- **Durable fire resistant**

PRODUCT DESCRIPTION:

FIRE FOAM is a ready-to-use one-component polyurethane foam for various construction applications. Consider: installation of fire-resistant doors and windows, sealing joints in fire-resistant walls and other sealing works in places where increased requirements are placed on the reaction of building materials to fire properties. Fire resistance is tested according to the European standard EN 1366-4 and reaction to fire according to the standard DIN 4102-1. Fire resistance has been assessed in accordance with EN 13501-2. Fire Foam has a minimal curing pressure and a low post-expansion, which prevents deformation of building elements.

Fire Foam has excellent adhesion to most materials such as wood, concrete, stone, plaster, metal, PVC and polystyrene.

APPLICATIONS:

Fire Foam is ideal for use:

- Installation of fire resistant doors and windows
- Sealing joints in fire-resistant walls
- Sealing work in places with increased demands on the reaction of building materials to fire properties
- Frequently occurring sealing activities in the construction sector

INSTRUCTIONS:

Processing temperature: + 5 °C to + 30 °C (best results at 20 °C)

Packaging temperature: + 10 °C to + 25 °C (best results at 20 °C)

Surface regulations: Remove dust, grease or other contaminants from the surface. If necessary, moisten dry surfaces before using Fire Foam for a better result. Protect adjacent surfaces with paper, plastic wrap, or other suitable material



Application method: Shake the package vigorously for at least 30 seconds. When mounting the softening gun it is important that the packaging is attached upright. (So do not turn the packaging upside down on the gun but turn the gun on the upright packaging).

Make sure the gun is not aimed at other people when reassembling. The amount of foam that comes out of the gun can be determined by adjusting the gun trigger on the back of the gun. For best results it is possible, if necessary, to moisten each layer of foam slightly with water.

Cleaning: For removing uncured foam or cleaning the application gun, Pro Part International recommends the use of the Foam & Gun Cleaner. (Article number 2075)
Cured foam must be removed mechanically.

Storage & shelf life: Shelf life is 12 months from production date when stored in unopened packaging in a cool and dry place at + 5 °C to + 30 °C. The packaging must not be stored above + 50 °C, near heat sources or in direct sunlight. Storage and transport in vertical position.

Limitations: Fire Foam does not adhere to Teflon, polyethylene and silicone surfaces. Cured foam is sensitive to UV light/ direct sunlight and should therefore be covered with a suitable opaque sealant, filler, paint or other material.

Safety regulations:

Only use Fire Foam in well-ventilated areas.

Smoking is not recommended during application! If necessary, use protective equipment. Keep out of the reach of children. See label and/ or safety data sheet for more information.

SPECIFICATIONS:

-	Value:	Unit:
Tack free (TM 1014)	6-10	Min
Cutting time (TM 1005)	<30	Min
Full curing in joint (3x5cm at 23 °C)	<8	Hour
Curing pressure (TM 1009, on wetted surfaces)	<3	kPa
Expansion (TM 1010)	<50	%
Density in joint (3x10cm -WGM106)	17-22	Kg/m ³
Dimensional stability (TM 1004)	<1	%
Temperature resistance of cured foam	-50...+90	°C
Fire resistant class (EN 13501-2)	Up to EI 240	-
Fire class cured foam (DIN 4102-1)	B1	-
Tensile Strength/ Elongation (TM 1018, dry surfaces)	>150/17	kPa / %
Tensile Strength/ Elongation (TM 1018, wetted surfaces)	>95/14	kPa / %
Compressive strength (TM 1011, wetted surfaces)	>40	kPa
Shear strength (TM 1012, wetted surfaces)	>45	kPa
Heat conductivity (EN 12667, TM 1020)	0,03	W/(m-K)
Noise reduction index Rst, w (EN ISO 10140)	60	dB
Water vapor permeability (EN 12086)	<0,06	Mg/(m-h-Pa)
Foam yield in joint (3x5cm (WGM107)	15	M

The stated values are obtained at + 23 °C and 50 % relative humidity, unless stated otherwise. These values may vary depending on environmental factors such as temperature, moisture and type of substrate.

Fire resistance tested according to EN 1366-4 and assessed according to EN 13501-2:

Fire Resistance Classification	EL 30-V-X-F-W-00 to 40	Joint depth 100mm and more
	EL 45-V-X-F-W-00 to 20	Joint depth 100mm and more
	EL 60-V-X-F-W-00 to 10	Joint depth 100mm and more
	EL 90-V-X-F-W-00 to 60	Joint depth 200mm and more
	EL 120-V-X-F-W-00 to 30	Joint depth 200mm and more
	EL 180-V-X-F-W-00 to 20	Joint depth 200mm and more
	EL 240-V-X-F-W-00 to 10	Joint depth 200mm and more

This classification is valid for the following end use applications:

- 1) The foam is to be used as a fire-resistant joint sealant in concrete, blockwork and masonry vertical partitions with a density of 650 kg/ m³ or more and a thickness of 100 mm and more.
- 2) Linear connections must be oriented vertically only and must be filled everywhere. The joint seal is applied flush with the surface of the supporting structure and protected with sheet steel with a thickness of at least 0,5 mm.