

## TECHNICAL DATASHEET

# PENOSIL Premium FireRated Gunfoam B1

Professional fire protection foam with low post expansion for demanding users. Fire resistance is tested according to European standard EN 1366-4 and reaction to fire according to standard DIN 4102-1.

Fire resistance is rated in accordance with EN 13501-2.

Packed in an aerosol can, can be used with a foam gun, moisture curing. Good resistance to moisture and mould. Fast curing. Great results at low temperatures. Cured foam is a good temperature and sound insulator. The foam has very good adhesion properties. Adheres well to most construction materials, except Teflon, polyethylene and silicone surfaces. After curing does not resist UV-radiation and needs to be covered.

### Field of application

- Installation of fire-proof doors and windows
- Sealing of joints in fire rated walls
- Sealing works in places which have heightened requirements concerning building materials reaction to fire properties
- Regular sealing works in construction sector

### Application conditions

Usage temperature between +5 °C and +30 °C, best results at +20 °C. Can temperature during application +10 °C to +25 °C, best results at +20 °C. The surfaces must be clean from dust, loose particles and oil. Cured foam can be painted with water-based paints.

### Application instruction

Hold the foam can in upright position, turn the gun to the can by holding the gun handle with one hand, and turn the can with the other hand. Make sure that the gun is not pointed to other persons when turning it. The can must not be screwed to the gun with the valve upside down or by turning the gun on the can. After fixing the gun, shake the can well at least 20 times. The foam output can be adjusted by gun trigger. Substrate should be moistened as the foam expands due to the moisture. A moistened surface ensures better results. At low temperatures foam can must be warmed before work in warm room or water. Temperature of room or water must not exceed +30 °C.

### Cleaning

Uncured foam can be cleaned from tools and surfaces with PENOSIL Premium Foam Cleaner. Cured foam can be removed mechanically after softening with PENOSIL Premium Foam Remover. Hands, clothes and foam gun can be cleaned from uncured foam with moistened PENOSIL Premium Cleaning Wipes.

## Technical specification

Properties	Value	Unit
Tack free time (TM 1014)	6-10	min
Cutting time (TM 1005)	<30	min
Completely cured in joint, 3x5cm (+23 °C)	<8	h
Curing pressure (TM 1009, moistened surfaces)	<3	kPa
Post expansion (TM 1010)	<50	%
Density in joint, 3x10cm (WGM106)	17-22	kg/m <sup>3</sup>
Dimensional stability (TM 1004)	<1	%
Temperature resistance of cured foam	-50...+90	°C
Fire resistance class (EN 13501-2)	Up to EI 240	
Fire class of cured foam (DIN 4102-1)	B1	
Tensile strength (TM 1018, moistened surfaces)	>95	kPa
Compression strength (TM 1011, moistened surfaces)	>40	kPa
Shear strength (TM 1012, moistened surfaces)	>45	kPa
Thermal conductivity (EN 12667, TM 1020)	0,03	W/(m·K)
Sound reduction index R <sub>st,w</sub> (EN ISO 10140)	60	dB

Fire resistance is tested in accordance with European standard EN 1366-4 and reaction to fire in accordance with DIN 4102-1.

The values specified were obtained at +23 °C and 50% relative humidity, unless otherwise specified.

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

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

This classification is valid for the following end use applications:

- 1) The foam shall be used as fire resistant joint seal in joints of concrete, block work and masonry vertical separating elements with density of 650kg/m<sup>3</sup> or greater and thickness of 100mm and over.
- 2) Linear joints shall have vertical orientation only and shall be filled throughout. Joint seal shall be fitted flush with the surface of the supporting construction and protected with steel sheet, thickness at least 0,5 mm.

## Colour

Light pink.

## Package

1000 ml aerosol can, content 750 ml, 12 pcs in a box.

## Storage

The cans must be stored and transported in vertical position. Store in a cool and dry place at +5 °C to +30 °C. The foam cans must not be stored above +50 °C, in vicinity of heat sources or in direct sun light. Guaranteed storage time in unopened package 12 months.

## Safety requirements

The product is flammable. Protect from overheating and keep away from ignitions sources. Avoid direct sunlight and do not smoke during work. May cause sensitisation by inhalation and skin contact. Ensure sufficient ventilation during application. Wear safety glasses and gloves. Keep out of the reach of children.

Cured foam can be handled without any danger to health.

Detailed safety information is available on safety data sheet (SDS).