

TECHNICAL DATASHEET

PENOSIL Premium Fire Rated Foam B1

High-quality fire insulation foam with straw applicator. The new and narrower straw applicator ensures good foam structure and high output. The new trigger is suitable for temporary air-tight sealing of the straw during work pauses.

Packed in an aerosol can, moisture-curing. 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.

Fire class meets the European standards EN 1366-4 and DIN 4102-1.

Rated in accordance with EN 13501-2:2007.

Field of application

Used for the installation of fire-proof doors, insulation of feedthroughs of pipes and cables, sealing and fixation of pipes as well as thermal insulation – any place where high fire-proofness is required.

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. Screw the applicator (straw) to the foam can valve. Shake the can at least 20 times before use. For application, turn the applicator upside down and press the applicator trigger. The foam output can be adjusted by applicator trigger.

A moistened substrate ensures faster curing and better result. 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 surfaces can be cleaned from uncured foam with moistened PENOSIL Premium Cleaning Wipes.

Technical specification

Property	Unit	Value
Tack free time	minute	12–16
Cutting time (30 mm bead)	minute	30–40
Completely cured in joint (at +23 °C)	hour	up to 18
Completely cured in joint (at +5 °C)	hour	up to 24
Density	kg/m ³	25–30
Fire Class of cured foam (DIN 4102-1)		B1
Fire resistance class of cured foam (EN1366-4)		EI
Volume decrease	%	non

Post expansion	times	2-2,5
Flash point of cured foam	°C	400
Tensile strength (BS 5241)	N/cm ²	12
Compression strength at 10% deformation (DIN 53421)	N/cm ²	3
Thermal conductivity	W/m·K	0,036
Temperature resistance of cured foam	°C	long term: -50 to +90 short term: -65 to +130
Output	L	30

Fire resistance is tested and rated in accordance with standards EN 1366-4 and DIN 4102-1.

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

Fire resistance tested in accordance with European standard EN 1366-4:

Joint depth, mm	100	100	100	100	200	200	200	200
Joint width, mm	40	30	20	10	40	30	20	10
El, min	45	45	60	60	120	120	150	180

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).