

TECHNICAL DATASHEET

PENOSIL Premium FireStop Acrylic

Single-component acrylic sealant, fire rated up to 4 hours for sealing internal joints. Recommended for low expansion construction joints and for sealing service penetrations through fire rated structures.

- Withstands fire up to 4 hours (exact details can be found in Fire Rating tables below)
- Halogen, solvent and asbestos free
- No odour
- Good adhesion to most common building materials (we always recommend a preliminary compatibility test)
- Can be painted over with most common paints (we always recommend a preliminary compatibility test)

Field of applications

Interior fire-resistant joint seals, where the integrity of fire walls has to be maintained, for example low movement joints in prefabricated panels, partition walls, window frames, etc. For sealing around penetrating elements: metal, pipes, conduits etc. Cracks repairation in concrete plaster.

Technical specifications and standards

Product has been tested and is classified accordingly:

FIRE RESISTANCE classification according to EN 13501-2.

Tested according to EN 1366-4 "Fire resistance test for service installations. Linear joint seals."

Tested according to EN 1366-3 "Fire resistance test for service installations. Penetration seals."

Sealant for facade for interior application. EN 15651-1:2012: Type F-INT

Application conditions

Application temperature between +5 °C and +40 °C. The temperature of the sealant during application must be +20 °C to +25 °C.

Application instructions

The surfaces must be dry, clean from dust, loose particles and oil. Non-porous surfaces should be cleaned with solvent and a clean, non-fluffy cotton cloth. Solvent rests should be removed before evaporating with a clean cloth.

310 ml cartridge: cut off the threaded end of the cartridge and screw on the application nozzle for directing sealant. Cut the threaded end in a way where a suitable opening for application is produced. Place the cartridge together with the applicator in the gun and fill the installation nozzle with sealant, by repeatedly pressing the gun trigger.

Apply sealant in the joint by repeatedly and evenly pressing on gun trigger and smoothly dragging the nozzle along the joint. After application, smooth the surface with a rubber silicone scraper and remove excess material.

During the curing process, make sure that no impurities can settle on the surface and that the joint surface is not affected by mechanical load.

Cleaning

Uncured acrylic can be removed from hands and tools with water or use PENOSIL Premium Cleaning Wipes.

Cured acrylic should be first removed mechanically and then with a moist cloth.

Technical specifications

Properties	Unit	Value
Skin forming time	minute	20
Curing rate	mm/24h	2-3
Density	g/cm ³	≈1,65
Properties of cured sealant:		
Movement capability (ISO 11600)	%	±7,5
Elongation at break (ISO 37)	%	200
Temperature resistance	°C	-20 to +80
Hardness (shore A) (ISO 868)		25

The parameters indicated have been measured at +23 °C and 50% relative air humidity.

Fire rating

Fire resistance according to EN 1366-4 Linear joints

Joint dimensions		Backing material	Orientation	Rating acc. EN 1366-4		Classification according EN 13501-2	N° report
Width (mm)	Depth (mm)			Integrity (E) (min.)	Insulation (I) (min.)		
40	10	-	Vertical	246	70	E 240 EI 60-V-X-F-W 00 to 40	17067-3

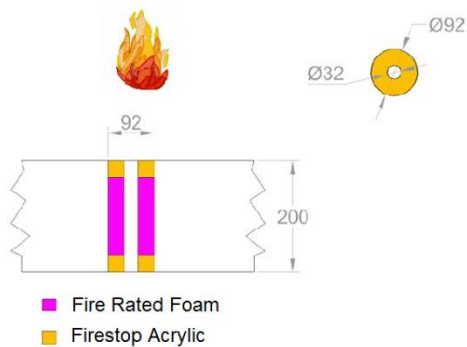
Legend: V: Vertical supporting construction – vertical joint ; X : No movement ; F: Field (Joint made following real conditions) ; W: joint width

Fire resistance according to EN 1366-3 Penetration sealing system

PVC Piping diameter (mm)	PVC Piping wall thickness (mm)	Rating acc. EN 1366-3		Classification according EN 13501-2
		Integrity (min.)	Insulation (min.)	
32	3	242	242	EI 240-U/U**

*Thickness of sealing system is 30 mm. Total length of sealing system 200 mm

** Pipe end configurations: U: Uncapped (both inside and outside the furnace)



Remark: Fire Rated Foam- PENOSIL Premium FireRated Gunfoam

Colour

White.

Package

310 ml cartridge, 12 pcs in a box.

Storage

Guaranteed persistence 12 months from the date of production, stored in original package in a dry place at temperatures +5 °C to +25 °C. Avoid freezing.

Limitations

Do not use on bituminous substrates or on building materials which might bleed oils, plasticizers or solvents.

Do not use for continuous immersion in water.

Should not be applied when exposure to rain is likely within 24 hours of application.

Not recommended for food direct contact applications.

There is no adhesion to PE, PP, PTFE (Teflon®). In cases of unknown materials, adhesions tests are recommended.

Safety

Uncured product may irritate eyes and respiratory organs. Avoid contact with mouth. Rinse eyes immediately with water and seek medical help. Keep out of reach of children!

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