

TECHNICAL DATA SHEET

PENOSIL FireStop Acrylic 618

Acrylic sealant for fire spread prevention. 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
- Can be painted
- 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)

Fields of application

- Sealing interior fire-resistant joints
- Sealing low-movement prefabricated joints, partition walls, window and door frames
- Sealing penetrations (pipes, conduits)
- Repairing cracks in concrete plaster

Adhering

- Wood
- Concrete
- Drywall
- PVC
- Different metals
- etc.

Application instructions

Application conditions

Application temperature between +5°C and +40°C.

Surface preparation

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 excess should be removed before evaporating with a clean cloth.

Application method

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.

Foil package: open the end of the foil pack and place the pack inside the gun so that the dosing nozzle keeps covering its open portion. Place the dosing nozzle on the open end and screw on the cap to close the tube. Cut the nozzle to create a suitable opening for dosing sealant.

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 suitable tool (e.g., spatula) and remove excess material.

Paintable after the final curing. Curing time depends on the size of the joint (2,5-3 mm/day). Early painting can cause cracking of the paint.

It is strongly recommended to cover cured caulk with a suitable paint to guarantee its longevity and similar colour shade with the background surface.

Cleaning

Uncured acrylic can be removed with water or with Penosil Cleaning Wipes.

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

Technical data

Properties	Value	Unit
Basis	Acrylic	
Density (DIN 53 479-B)	1,65	g/ml
Curing rate	2...3	mm/24h
Application temperature	+5...+40	°C
Service temperature	-20...+80	°C
Movement capability (ISO 11600)	±7,5	%
Shore A hardness (ISO 868)	25	

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

Technical classification and certificates

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

Colour

White.

Package

300 ml cartridge, 12 pcs in a box

600 ml foil package, 20 pcs in a box.

Storage conditions and shelf life

Guaranteed shelf life 18 months from the manufacturing date when stored in closed original package in a dry place at temperatures between +5 °C and +30 °C. Avoid freezing and temperatures over +30 °C.

Short-term resistance to freezing, max 10 days at temperatures over -18 °C.

Freeze-thaw resistance 7 cycles at temperatures -18 °C and +23 °C, one cycle lasting 48 hours (24 hours at -18 °C and 24 hours at +23 °C).

Limitations

- It should not be applied on bituminous or tar containing substrates, and to materials that bleed oils or plasticizers. Do not use in damp or wet conditions or if rain is imminent.
- Not recommended for applications in constant contact with water.
- Early painting may cause cracking of the paint.
- Not suitable for joints with movement more than 7,5% of the joint width.
- Due to the wide variety of possible substrates, we recommend a preliminary compatibility and adherence test. If necessary, prime surfaces to improve adhesion.

- Due to the wide variety of influences during and after application, the customer must always test the product first!
- Please observe the expiration date!

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

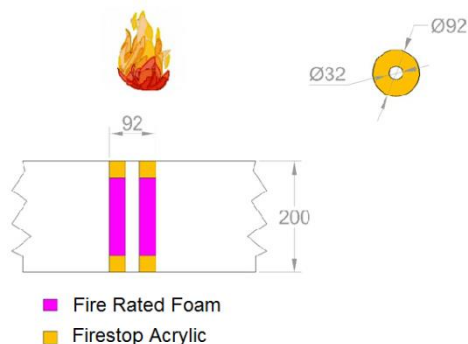
Legend: V: Vertical supporting construction – vertical joint ; X : No movement ; F: Field (Joint made following real conditions) ; W: joint width

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

Safety regulations

Ensure sufficient ventilation during application and wear necessary personal protective equipment. More specific safety information is available on the safety data sheet (SDS).

Note: The instructions in the present documentation are based on tests carried out by the manufacturer and are presented in good faith. Due to variations in materials and substrates as well as the various application possibilities that are beyond our control, the manufacturer is not liable for the results achieved. In any case, it is recommended to test the product suitability at the place of application. Manufacturer reserves the right to modify products without prior notice. This TDS replaces and supersedes all previous data sheets on the same product.