PremFire FR Acrylic

Product Description

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.

Features

- 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)

Typical Applications

- 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 to:

- Concrete
- Drywall
- Wood
- PVC
- Different metals

	Value
Basis	Acrylic
Density (DIN 53 479-B)	1.65g/ml
Curing rate	2-3min/24h
Application temperature	+5°C to+40°C
Service temperature	-20°C to+80°C
Shelf life	18 months
Shore A hardness (ISO 868)	25
Movement capability (ISO 11600)	±7.5%
Colour	White
Package	300 ml cartridge

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

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 12,5% 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!

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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

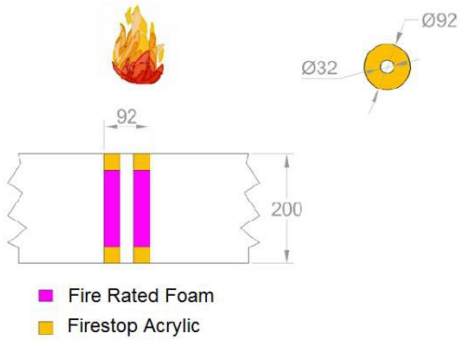
Legend: V: Vertical supporting construction – vertical joint; X: No movement; F: Field (Joint made following real conditions); W: joint width

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 30mm. Total length of sealing system 200mm

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



Remark: Fire Rated Foam-FireRated Gunfoam B1

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).

Technical classification and certificates

- Sealant for facade for interior and exterior application, suitable for cold climate.
  EN 15651-1:2012: Type F-INT-EXT-CC: CLASS 12,5E
- Suitable for use in HVAC systems in accordance with VDI6022, tested in accordance with EN ISO 846.

Please note: The above technical information is given as a guide and is based on recent test data obtained under laboratory conditions. Materials should be fully tested by the end user to establish suitability of the product for the intended application. May 2024

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