

## FPP Polymer

Polymer sealant for fire protection

*Technical Data Sheet*

01/2024



### Material

Knauf FPP Polymer fire protection polymer sealant is a fireproof and sound-insulating mass intended for wide application. Suitable for sealing flexible areas and sealing utility crossings in places where standard fire protection acrylic cannot be used. The polymer mass provides effective protection against fire, smoke, gas and sound.

#### Storage

12 months. Store in a dry place on wooden pallets in unopened original packaging. Storage temperature from +5 °C to +30 °C.

#### Quality assurance

In accordance with the requirements of norms EAD 350141-00-1106 and EAD 350454-00-1104, Knauf FPP Polymer has undergone European Technical Assessments ETA 23/0967 and ETA 23/0968; constant control of the production process is ensured.

The product is marked with the CE mark.

### Application

FPP Polymer sealant for fire protection is intended for sealing all types of structures, utility crossings and joints to prevent the spread of fire and smoke through joints and openings in fire-rated walls and coverings, including openings created around building utility crossings.

It is classified for all types of structures – lightweight partitions, solid walls and coverings. The polymer sealant is also suitable for the fireproof sealing of joints – gypsum boards, concrete, wood, steel, aluminium (e.g., door and window frames).

The material maintains the acoustic properties of walls and coverings.

### Features and benefits

- Ready to use
- Air, smoke and gas tight, tested at 600 Pa
- High sound insulation
- Flexibility up to 12.5%
- Low emissions – environmentally and user friendly
- Classified for all types of structures, utility crossings and fireproof sealing of joints
- Smooth surface finish
- Easy to apply
- Service life 30 years
- For indoor work

FPP Polymer is designed for sealing utility crossings: cables, cable bundles, cable protection tubes, steel pipes, copper pipes, multi-layer pipes, combustible pipes PVC, PE, ABS, PP. The fire protection sealant is air-cured, but semi-flexible after curing, as a result of which it provides the flexibility of expansion joints.

In fire conditions, thermal activation of the sealant occurs at a temperature of approximately +180 °C. The material swells to form a charcoal layer that prevents the spread of fire and smoke for up to a maximum of 4 hours.

For indoor work.

**Note**

FPP Polymer is designed for all types of derived combustible pipes:

- PVC pipes, including PVC-U, PVC-C and others, if they comply with EN 1329-1, EN 1452-2, EN 1453-1 or EN 1566-1,
- PP pipes, including PP-MV, PP-H, PP-R and others, if they comply with EN 1451-1 or DIN 8077/8078,
- PE pipes, including PE-LD, PE-MD, PE-HD, PE-X and others, if they comply with EN 1519-1, EN 12201-2 or EN 12666-1, ABS according to EN 1455-1 and for pipes made of SAN+PVC according to EN 1565-1.

**Other instructions**

In case of contact with the eyes, rinse them with plenty of water and seek medical help.

This technical sheet defines the scope of use of the material and the recommended work to be carried out, but it cannot replace the skill of the contractor. In addition to these recommendations, the work must be carried out in accordance with the requirements of the construction work. The manufacturer guarantees the quality of the product but has no influence over how and under what conditions it is used. If in doubt, a trial application should be carried out.

This technical data sheet supersedes previous editions of technical sheets

**Occupational safety and waste collection**

Waste identification class: 080410 (see material safety data sheet).

**Processing**

Openings or joints in walls and coverings must be dry, clean, and free of dust.

The polymer sealant can be used in conjunction with non-combustible fillers such as stone wool or Knauf FP Backing sealing material, ensuring the exact filling of the gap in terms of its width and depth.

Processing is to be carried out in accordance with ETA 23/0967 and ETA 23/0968 as well as the installation instructions Knauf FPP Polymer E501f.en-A01.

**Temperature/climate**

The air and base temperatures during processing and curing must be between +5 °C and +30 °C.

**Technical data**

Designation	Unit/Norm	Value / Size
Reaction to fire class	LVS EN 13501-1	B-s1, d0
Fire resistance	LVS EN 13501-2	ETA 23/0967 ETA 23/0968
Density	kg/m <sup>3</sup>	1.54
Air permeability	EN 1026:2016	air, smoke and gas tight
Resistance	EAD 350454-00-1104, Clause 2.2.9	X
Operating time	years	≥ 30
Airborne sound insulation	EN 10140-1,2,4,5/ EN ISO 717-1	Rw(C;Ctr) = 62 (0;-4) dB 12 mm thickness
Thermal conductivity (in 20 mm thickness)	W/m·K	0.845
Temperature resistance	°C	-40 to +75
Application temperature	°C	+5 to +30
Non-adhesive	min	60
Film formation		30
Hardening	days	3-5 (depending on layer thickness, ambient temperature and humidity level)
Colour	-	white

## Sustainability and environment

Criterion	Class	Value
French VOC Regulation	A+	fulfils
German AgBB (2021)/ABG (2022)	-	fulfils
Blue Angel (DE-UZ 123)	-	fulfils
BREEAM-International	exemplary level	fulfils
LEED-EU (v4.1) BETA	-	fulfils
SINTEF	-	fulfils

## Delivery programme

Title	Packaging	Packaging unit box / pallet	Art. Nr.	EAN code
Knauf FPP Polymer	600 ml	12 pcs in cardboard box	00651038	5902367204532

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Manufacturer: SIA Knauf