

## FPA Acrylic

Fire protection and acoustic acrylic

*Technical Data Sheet*

01/2024



### Material

Ready-to-use fire protection acrylic is a fire-resistant and sound-insulating, air-hardening, but also partially flexible after hardening, one-component, acrylic mass, specially developed for fire protection and sound-insulating seals. At a high temperature (approximately +180 °C), the mass swells (forming a charcoal layer), which ensures effective sealing against fire, smoke and gases – up to a maximum of 4 hours.

#### Storage

24 months. Store in a dry place on wooden pallets in unopened original packaging. Storage temperature from +10 °C to +30 °C.

#### Quality assurance

In accordance with the requirements of norms EAD 350141-00-1106 and EAD 350454-00-1104, Knauf FPA Acrylic has undergone European Technical Assessments ETA 23/0975 and ETA 23/0976; constant control of the production process is ensured. The product is marked with the CE mark.

### Application

FPA Acrylic acrylic 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, solid wood CLT wall and covering panels. The acrylic is also suitable for the fireproof sealing of joints – wood, steel, aluminium (e.g., door and window frames).

The material maintains the acoustic properties of walls and coverings.

FPA Acrylic 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, PEX pipe-in-pipe.

### 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

The fire protection acrylic 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 acrylic 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**

- FPA Acrylic 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.

**Processing**

Openings or joints in walls and coverings must be dry, clean, and free of dust. The acrylic is processed with a construction gun.

The acrylic 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 23/0975 and ETA 23/0976 as well as the installation instructions Knauf FPA Acrylic E501e.lv-A1.

**Temperature/climate**

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

**Occupational safety and waste collection**

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

**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 23/0975 ETA 23/0976
Density	kg/m <sup>3</sup>	1.58–1.64
Air permeability	EN 1026:2016	air, smoke and gas-tight
Flexibility	EN ISO 9046	12.5%
Resistance	EAD 350454-00-1104, Clause 2.2.9	Z2
Operating time	years	≥ 30
Airborne sound insulation	EN 10140-1,2,4,5 / EN ISO 717-1	Rw(C;Ctr) = 62 (-1;-5) dB 12 mm thickness
Electrical conductivity	-	none
Thermal conductivity (in 20 mm thickness)	W/m·K	0.845
Temperature resistance	°C	-20 to +70
Application temperature	°C	+5 to +30
Non-adhesive	min.	75
Film formation	min.	25
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
EMICODE	EC1 PLUS	fulfils
Indoor Air Comfort GOLD®	-	fulfils
Blue Angel (DE-UZ 123)	-	fulfils
BREEAM-International	exemplary level	fulfils
LEED-EU (v4.1) BETA	-	fulfils

## Delivery programme

Title	Packaging ml	Packaging box / pallet	Art. Nr.	EAN code
Knauf FPA Acrylic	600 ml	12 pcs per cardboard box / 1092 pcs per pallet	00651011	5902367204495

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