KNAUF FPA ACRYLIC

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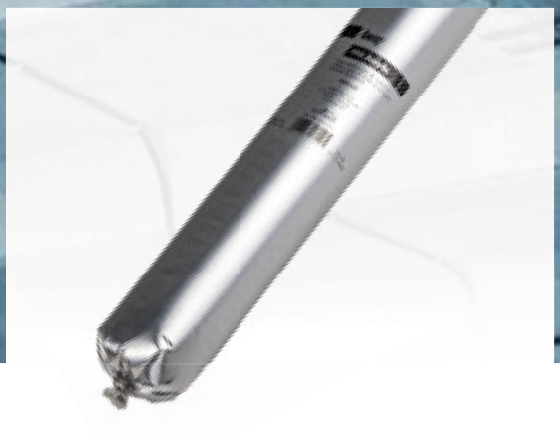

Knauf Fire protection acrylic - FPA is a fire rated single component partly flexible acrylic mastic specially designed for fire sealing. The sealant expands when heated and produces an efficient seal against fire, smoke and gas.

Storage

- Store dry in the original packaging.
- Storage temperature: between 10°C and 30°C
- Storage stability: ~~18 months~~ s tored in unopened cartridges, see imprint on cartridge for expiry date
- Knauf Fire protection acrylic FPA - 310 ml cartridge, article no. 651009
- Knauf Fire protection acrylic FPA - 600 ml foil, article no. 651011

Installation Instructions

1. Before installing Knauf FPA Acrylic ensure that the surface of all service penetrations and surrounding construction is free from all loose contaminants, dust and grease.
2. Where Knauf FPA Acrylic is to be installed against surfaces that cannot tolerate direct contact; appropriate surface preparation should be made (contact Knauf for guidance in these cases). For paints sensitive to sealing compounds, priming with a PVA primer is recommended.
3. As Knauf FPA Acrylic is water based, in cases where corrosion protection is a problem; some metals may require a barrier between the sealant and the metal surface prior to this installation.
4. When installing the sealant in gypsum boards, the exposed edges of the board can be wetted with water, or Knauf FPA Acrylic diluted with water to prime the surfaces helping adhesion and preventing excessive joint shrinkage.
5. When installing Knauf FPA Acrylic in hollow floor slabs or boards, fire seals specified as single sided should be installed from the soffit side of the floor assuming there is sufficient thickness of concrete below the void to follow the installation guide. Where this is not the case, tubular voids should be filled with stone wool normally the same thickness as the depth of the floor slab. Alternatively, simply fire seal on both sides.
6. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved.
7. Fill the gap or joint with Knauf FPA Acrylic to the required depth. Refer to the drawings ~~on following pages 4 to 22~~ for guidance on joint design/dimensions. If installation does not have to meet any specific fire specification, it is recommended that a width to depth ratio of 2:1 is utilized, with a minimum depth of 12mm of sealant.
8. Apply the sealant generously to prevent air bubbles. Finish the bead with a moist spatula, pallet knife or brush.
9. Knauf FPA Acrylic can be over-painted with most emulsion or alkyd (gloss) paints.

Product description

Knauf Fire protection acrylic - FPA is a fire rated single component partly flexible acrylic mastic specially designed for fire sealing. The sealant expands when heated and produces an efficient seal against fire, smoke and gas.

Knauf Fire protection acrylic expands when it is subjected to fire and closes openings around penetrations when any combustible or low temperature melting materials have burnt away. FPA should be applied over suitable backing materials to ensure correct width to depth ratio and to reduce shrinkage of the joint during hardening.

Scope of application

Knauf FPA is designed to prevent the spread of fire and smoke through joints and openings in fire rated walls and floors including openings formed around building service penetrations. It will also maintain the acoustic design performance in walls and floors.

Knauf FPA cures when it is subjected to atmospheric conditions, however it will retain a degree of elasticity for joint movement. Under fire exposure FPA creates a robust fire seal by the formation of a durable intumescent char.

Thermal activation takes place at about 180°C when the material will expand and prevent the passage of fire and smoke for up to 4 hours.

Properties

- Classified for fire sealing all types of construction and building service penetrations
- Easy to apply and has a smooth surface finish
- Movement capability uo to 12.5%
- ~~18 months storage~~ life (under correct conditions)
- ~~30 years~~ working life
- Fire resistance up to EI240
- ~~ETA 21/0035 and ETA 21/0046~~
- EAD 350141-00-1106 and EAD 350141-00-1104

Emission dada (indoor air quality)

Compound	Emission rate after 3 days	Emission rate after 4 weeks
TVOC	83 µg/m³	< 5 µg/m³
TSVOC	n.d.	< 5 µg/m³
VOC w/o NIK	n.d.	< 5 µg/m³
R Value	n.d.	< 1
Formalde-hyde	< 3 µg/m³	n.d.
Acetaldehyde	< 3 µg/m³	n.d.
Sum for+ace	< 0.002ppm	n.d.
Carcinogenic	(< 1 µg/m³)	(< 1 µg/m³)

n.d. or < means not detected

Sound insulation

Description	Sound reduction
Single sided seal ≥12mm depth	62 dB
Double sided seal ≥12mm depth	> 62 dB

FPA has been tested at BM Trada (UKAS accredited); according to EN ISO 10140-2:2010. Usage of any backing material is optional, due to the tests being conducted with sealant only.

Safety

Please observe the EC Safety Data Sheet.