KNAUF FIRE PROTECTION POLYMER

2

Knauf Fire Protection Polymer is a high performance, professional quality, one part ready to use sealant and adhesive.

Based on an innovative new Inert Polymer Technology it is suitable for a wide variety of building trade applications including decorating, fire sealing, flooring, joinery, plumbing and tiling and out-performs conventional silicone, MSP, butyl and acrylic based products as a sealant and adhesive – the only sealant free from dangerous emissions.

Method of delivery

› Knauf Fire Protection Polymer - FPP 310 ml cartridge, article no. 651095

Installation Instructions

1. All surfaces must be clean and sound, free from dirt, grease and other contaminants. The surfaces may be damp but not running wet. Use a wet brush to clean surfaces before application to remove loose material and to ensure good contact for adhesion. Primers are not usually required.

2. As Knauf FP Polymer contains some water, 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.

3. When installing Knauf FP Polymer in hollow floor slabs or boards, 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.

4. Refer to the drawings on the Technical Data Sheet for guidance on joint design/ dimensions for fire sealing. If installation does not have to meet any specific fire specification, the depth of the joint should be at least half the width and not less than 6mm in order to obtain maximum performance as a sealant.

5. When installing any backing material, cut this slightly oversize and insert into the gap ensuring a tight friction fit. Ensure correct depth is achieved. The use of backing material is strongly recommended.

6. Cut nozzle to the desired angle and gun firmly into the joint to give a good solid fill. Strike off the sealant flush with the joint sides within ten minutes of application, before surface skinning occurs. The sealant will have medium shrinkage during cure and if a flush surface is required it is recommended to leave the sealant proud.

7. The sealant can be tooled to a smooth finish using a moist plastic stick or similar within 30 minutes of application.

8. Do not spray the sealant with water or other fluids before skin formation (<30 min). Uncured sealant is soluble in water prior to skinning due to its environmentally friendly IPT chemistry that uses water instead of solvents.

9. Knauf FP Polymer can be over-painted.

Product description

Knauf Fire Protection Polymer - FPP is a fire and sound rated sealant designed for a number of special applications including high movement and sanitary seals, where normal fire rated acrylics cannot be used. The sealant produces an efficient seal against fire, smoke, gas and sound.

Storage

Store dry in the original packaging.

Storage temperature: between 5°C and 35°C

Storage stability: 12 months stored in unopened cartridges, see imprint on cartridge for expiry date

Scope of application

Knauf Fire Protection Polymer - FPP is a high performance, professional quality, one part ready to use sealant and adhesive. It is suitable for a wide variety of building trade applicati ons including decorating, flooring, joinery, plumbing and tiling and out-performs conventional silicone, MSP, butyl and acrylic based products as a sealant and adhesive.

Knauf Fire Protection Polymer - FPP maintains integrity of a joint in a fire situati on giving a minimum 4 hours as long as the surrounding construction remains intact.

FPP eliminates the selection choices that need to be made with conventional sealants and adhesives, offering one solution for all internal building applications.

Properties

- Excellent adhesion to most common substrates
- Easy to apply and tool off
- 3D joint movement capability minimum 25%
- Fire rated up to 4 hours both integrity and insulation
- Low shrinkage
- 12 months storage time
- Only technology available that is VOC free
- ETA 23/0967 and ETA 23/0968
- EAD 350141-00-1106
- EAD 350454-00-1104

Emission data (indoor air quality)

Compound	Emission rate after 3 days	Emission rate after 4 weeks
TVOC	7,7 µg/m³	< 5 µg/m³
TSVOC	n.d.	n.d. (<5 µg/m³)
VOC w/o NIK	n.d.	n.d. (< µg/m³)
R Value	< 1	< 1
Formaldehyde	< 3 µg/m³	< 3 µg/m³
Acetaldehyde	< 3 µg/m³	< 3 µg/m³
Sum for+ace	< 0.002 ppm	-
Carcinogenic	n.d. (<1 µg/m³)	n.d. (<1 µg/m³)

n.d. means not detected

Sound insulation

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

FPP 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.