

KNAUF FIRE PROTECTION FOAM

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Knauf Fire protection foam - FPF is 2-component polyurethane foam stored in a cartridge, with halogen-free fire safety additives, intumescent.

Method of delivery

- › Knauf Fire protection foam FPF - 380 ml cartridge, article no. 586216
- › Knauf Fire protection foam FPF - 380 ml - SET (including: 6 x FPF 380 ml / 12 x mixing nozzles / 6 x pair of gloves / 1 x duct tape) article no. 586217
- › Knauf Fire protection foam FPF starter KIT – one pcs of FPF 380 ml cartridge + pistol article no. 586170

TECHNICAL DETAILS	
Approval	ETA-11/0206 and ETA-10/0431
Classification of the reaction to fire in accordance with DIN EN 13501-1	Class E
Expansion ratio in the event of fire	1.6x to 4.5x Tested on samples at 450°C for 25 minutes with superimposed load. The expansion ratio is a laboratory characteristic value. The expansion ratio in installed status depends on the existing boundary conditions.
Bulk density (material has completely reacted)	$\rho \geq 215 \text{ kg/m}^3$
Color	Red-brown
Testing the fire protection properties under environmental influences	Use category Z1 (use in indoor areas with high humidity and temperatures $\geq 0 \text{ }^\circ\text{C}$)
Work interruption	Approx. 50 seconds (at 22 °C material temperature and ambient temperature)
Foam yield	Up to 2.1 litres (at 22 °C material temperature and ambient temperature)
Cutability	After approx. 90 seconds (at 22 °C material temperature and ambient temperature)
Air permeability	$Q_{600} < 0.08 \text{ m}^3/(\text{h} \cdot \text{m}^2)$ (at 600 Pa differential pressure, with a measuring accuracy of 0.01 m ³ /h, no air permeability was measurable) Test standard: EN 1026 (test specimen dimensions 350 x 350 x 200 [mm], tested without penetrating elements)
Resistance to static differential pressure	No visible changes up to the maximum test pressure of the test device ($P_{\text{max}} = 10,000 \text{ Pa}$). Test standard: in accordance with EN 12211 (test specimen dimensions 350 x 350 x 200 [mm], tested without penetrating elements)
Thermal conductivity	$\lambda = 0.088 \text{ W}/(\text{m} \cdot \text{K})$. Test standard: DIN EN 12667
Airborne sound insulation	$D_{n,e,w} (C; C_{tr}) = 66 (-1; -6) \text{ dB}$ Test standard: EN ISO 717-1 (test specimen dimensions 360 x 360 x 200 [mm], tested without penetrating elements)
Continuous contact or ambient temperature	$\leq 80 \text{ }^\circ\text{C}$

Storage

Store dry in the original packaging.
Storage temperature: + 5°C to + 30°C
Storage stability: 12 months at 23°C/50% relative air humidity, see imprint on cartridge for expiry date

Influence of coating materials and chemicals

The following paints and occasional, brief influence of chemicals do not cause any changes in the technical fire safety properties:

Coating materials: Dispersion paint, alkyd resin paint, polyurethane acrylic lacquer, epoxy resin lacquer, silicone

Solvent/oil: Trichloroethylene, xylene, acetone, white spirit, butyl acetate, butanol

Gaseous chemicals: Ammonia

Note: Environmental conditions with high humidity levels and/or some coating materials and chemicals can cause minor lightening of the color or changes in color.

Scope of application

Knauf Fire protection foam - FPF can be used as a sealing system for cables, cable trays, combustible and non-combustible pipes in walls and floors. Knauf Fire protection foam FPF is particularly characterized by its easy processing. It can be used as a mixed penetration seal (EI 90), as well as a pure cable penetration seal (EI 120).

The optimal match between the beginning of the reaction and hardening enables sufficiently long work interruptions for the user, as well as fast work progress. Thanks to the high viscosity, the user does not have to deal with foam running out of the penetration seal. After hardening, the permanently elastic structure of the penetration seal enables easy retroactive-installation.

Contact with metals and plastics

The surface consistency of aluminum, stainless steel, galvanized steel and plastics made of polyethylene and polyvinyl chloride is not affected in a negative way upon contact with Knauf Fire protection foam FPF.

Properties

- Easy, fast and clean application
- Single-product solution
- Low air leakage through penetration
- Low thermal conductivity
- High airborne sound insulation
- Fire resistance up to EI120
- Certified according to ETAG 026-2

Safety

Please observe the EC Safety Data Sheet.