



FP 401 Fireseal Acrylic

FIRE RETARDANT ACRYLIC SEALANT

ADVANTAGES

- ETA & UL-EU certified
- Excellent application
- Up to 4-hour fire resistance
- Tested for sound insulation
- Good paintable

PRODUCT

FP 401 Fireseal Acrylic is a 1-component fire resistant sealant based on acrylic dispersion. FP 401 Fireseal Acrylic is a plastoelastic sealant which is suitable for up to 4 hours of fire resistant sealing of linear joints.

APPLICATIONS

FP 401 Fireseal Acrylic is specifically developed for fire resistant sealing of linear connection joints in gypsum and stony substrates. Fire resistance tested according to EN 1366-4.

Ensure that you choose the correct fire resistance for your application by consulting the classification and test reports.

FEATURES

- Extensively tested for fire resistance according to EN 1366-4
- Fire resistance up to 4 hours in linear joints
- Can be applied separately or in combination with Bostik FP 404 Fire Retardant PU (Gun)Foam in joints up to 40mm wide
- Sound insulation tested according to EN ISO 10140-2:2010
- Can be applied in both vertical as horizontal joints
- CE classification: EN 15651-1: F-EXT-INT-CC 7.5P
- Joint movement up to 7.5%
- Easy to apply and clean
- Paintable with most water based and synthetic paints
- Almost odourless
- Non corrosive towards metals

METHOD OF USE

Substrate: Substrate must be dry, clean, firm, dust-free and grease-free.

Preparation: Substrates to be cleared of all loose particles, absorbent substrates do not need to be absolutely dry. Very porous substrates like: gypsum, airated concrete, limestone, etc need to be primed with a mixture of 1 part FP 401 Fireseal Acrylic and 2 parts water. Always test adhesion



prior to application. Finish and smooth with water.

Joint construction: The joint depth should always be in the correct relationship of the joint width. A general rule is the ratio of joint depth to the width of the joint with a joint width up to 10mm is 1:1, with a minimum of 5mm in width and depth. For joints wider than 10mm, the depth is the width divided by 3 plus 6mm.

Application: Apply FP 401 Fireseal Acrylic with a manual or pneumatic application gun. Carefully spray FP 401 Fireseal Acrylic against the joint walls and then press firmly during finishing.

Finishing: Within 6 minutes, after which skin formation begins, press the sealant against the joint walls (with a pointing trowel or wooden spatula). Finish and smooth with water.

Cleaning: Tools should be cleaned after use with water. Hands can be cleaned water and soap

LIMITATIONS

- Not suitable for PE, PP, PC, PMMA, PTFE, soft plastics, neoprene and bituminous substrates.
- Not suitable for continuous exposure to water.

CERTIFICATION / TEST REPORTS

- ETA 20/1250
- Peutz summary classification report
- UL-EU certificate
- Fire class B-s1,d0 according to EN 13501-1
- Ecode EC1Plus
- A+ French VOC regulation
- Smoke leakage Sa / S200 according to EN 1634-3
- Sound reduction

FIRE RESISTANCE

Fire resistance is the time in minutes during which a construction meets the established criteria regarding stability (may not collapse), flame penetration (integrity) and heat transfer (thermal insulation criterion). The thermal insulation criterion specifies that the temperature of the structure on the non-fire side may not rise above 180°C locally and max. 140°C on average. The fire resistance is specified in time (minutes) during which the criteria for flame penetration (E) and temperature (I) are met, e.g. EI 240 (4-hour fire resistance). The classification further specifies the type of material in which the joint is made and whether the joint is sealed on the fire side, the non-fire side or both sides. Also stated is whether the joints are vertical or horizontal, what the maximum joint width should be, and whether or not a displacement is applied to the joint.

PEUTZ REPORT BOSTIK FP 401 FIRESEAL ACRYLIC

Determination of the fire resistance of various joints according to EN 1366-4 with heating according to the standard fire curve.

For information see Summary of fire resistance study Bostik FP 401 Fireseal Acrylic from Peutz fire safety laboratory.

This report specifies the correct classifications of Bostik FP 401 Fireseal Acrylic in various joint constructions.

SOUND INSULATION

Sound reduction measured according to ISO 10140-1:2012, joint 10mm x 10mm single sided seal with backer rod (PE/PU): $R_{s,w}$ 53 dB.

PAINTABILITY

FP 401 Fireseal Acrylic is paintable when fully dry. During curing product will show shrinkage, which can cause cracking of the paint. We recommend testing compatibility with paint prior to application.

STORAGE STABILITY

Store in unopened packaging in dry conditions between +5 and +25 °C. Shelf life 18 months after production. Has a limited shelf life once packaging has been opened.

FURTHER INFORMATION AVAILABLE ON REQUEST

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Technical data	
Base	acrylic dispersion
Application temperature	+5°C to +40°C
Density	1.60 g/ml (ISO 1183-1)
Skin formation	6 minutes (at +23°C/50% RH)
Open time	5-10 minutes (at +23°C/50% RH)
Elongation at break	300% (DIN 53505/ISO 868)
Shore A	20 (DIN 53505)
Tensile strength	0.11 N/mm ² (DIN 53504)
Application rate	580 g/min (Ø4mm/4 bar)
100% Modulus	0.25 N/mm ² (DIN 53504 S2)
Curing time	1mm/24 hours (at +23°C/50% RH)
Flow resistance	<2mm (ISO 7390)
Joint movement	7.5%
Temperature resistance	-20°C to +75°C
Reaction to fire	Class B-s1,d0
Sound insulation	$R_{s,w}$ 53 dB (joint 10mm x 10mm) (ISO 10140-1:2012)
Frost resistance during transportation	Up to -15°C
Packaging	cartridge 310 ml / sausages 600 ml
Colour	White & grey
Packed per	box of 12 cartridges / sausages
Pallet quantity	1248 cartridges / 660 sausages

These are typical values

- Material safety data sheet
- Summary of fire resistance study

BOSTIK HOTLINE

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