



# FP 403 Fireseal Hybrid

## FIRE RETARDANT HYBRID SEALANT

### ADVANTAGES

- Excellent application
- Elastic
- Tested for sound insulation
- Up to 4-hour fire resistance
- Good paintable

### PRODUCT

FP 403 Fireseal Hybrid is a high quality fire resistant sealant based on hybrid technology.

### APPLICATIONS

FP 403 Fireseal Hybrid was specifically developed for fire resistant sealing of connection and expansion joints in construction, which in case of fire, should have a certain fire resistance and prevents spreading of fire, smoke and toxic gases. Also certified for horizontal joints, connection floor/ceiling with wall, wooden and steel frames, stony substrates and all metal-stud applications. Fire resistance tested according to EN 1366-4 for up to 240 minutes in a joint of 30 mm wide. 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 (movement) joints
- Can be applied in joints up to 40mm wide
- Suited for both vertical and horizontal joints
- Suitable for wall/ceiling and wall/floor connections
- Certified for steel and wooden frames
- Certified for metal-stud connections
- CE classification: EN 15651-1: F-EXT-INT-CC 25HM
- CE classification: EN 15651-2: G-CC 25HM
- Joint movement up to 25%
- Sound insulation tested according to EN ISO 10140-2:2010
- Minimum shrinkage
- Excellent application and easy toolability
- UV, water and weather resistant
- Paintable with most water based and synthetic paints
- Non corrosive towards metal
- Odourless
- A+ French VOC Regulation
- Emission EC1 Plus



### METHOD OF USE

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

**Preparation:** FP 403 Fireseal Hybrid adheres perfectly without the use of primer to most non porous substrates. Pretreat porous substrates with Bostik Primer MSP. Bostik Prep M is recommended for metal substrates, such as steel. Always test adhesion prior to application.

**Joint construction:** The fire resistance of the joint construction can be considerably increased by sealing the joint on both sides. A joint with the correct dimensions is able to absorb movements between building materials. Fill the movement joints with backerrod to create the correct joint depth. 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 403 Fireseal Hybrid with a manual or pneumatic application gun. Carefully spray FP 403 Fireseal Hybrid against the joint walls and then press firmly during finishing.

**Finishing:** Within 10 minutes, after which skin formation begins, press the sealant against the joint walls (with a pointing trowel or wooden spatula) and then immediately smoothen the joint with the use of Bostik Finishing Soap. Prevent soapy water between joint walls and sealant (to prevent possible detachment along the edges).

**Cleaning:** Cured sealant is insoluble and can only be removed mechanically. Uncured residual sealant can be removed with a clean, dye-free cloth soaked with Bostik Liquid 1.

## LIMITATIONS

Not suitable for PE, PP, PC, PMMA, PFTE, soft plastics, neoprene and bituminous substrates.

## 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 movement is applied to the joint.

## PEUTZ REPORT BOSTIK FP 403 FIRESEAL HYBRID

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 403 Fireseal Hybrid from Peutz fire safety laboratory. This report specifies the correct classifications of Bostik FP 403 Fireseal Hybrid 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): Rs,w 53 dB.

## PAINTABILITY

FP403 Fireseal Hybrid is paintable with water based and synthetic paints. 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.

Technical data	
Base	Hybrid
Application temperature	+5°C to +40°C
Density	1.48 g/ml (ISO 1183-1)
Skin formation	10 minutes (at +23°C/50% RH)
Elongation at break	350% (DIN 53504 S2)
Shore A	24 (DIN 53505)
Tensile strength	0,96 N/mm <sup>2</sup> (DIN 53504 S2)
Application rate	115 g/min (Ø2,5mm/6,3 bar)
100% Modulus	0,49 N/mm <sup>2</sup> (DIN 53504 S2)
Curing time	2-3mm/24 hours (at +23°C/50% RH)
Flow resistance	<2mm (ISO 7390)
Joint movement	25%
Sound insulation	Rs,w 53 dB (joint 10mm x 10mm) (ISO 10140-1:2012)
Temperature resistance	-40°C to +90°C
Packed per	box of 12 cartridges
Pallet quantity	1248 cartridges

These values are typical properties and may vary +/- 3%

## FURTHER INFORMATION

- Material safety data sheet is available on request
- Summary of fire resistance study

Article number	Colour	Packaging
30612887	white	cartridge 290 ml
30612851	(concrete)grey	cartridge 290 ml

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