



# FP 402 Fireseal Silicone

## FIRE RETARDANT SILICONE SEALANT

### ADVANTAGES

- Excellent application
- Durable elastic
- UV, water and weather resistant
- Up to 4-hour fire resistance

### PRODUCT

FP 402 Fireseal Silicone is a fire retardant, elastic, neutral curing silicone sealant.

### APPLICATIONS

FP 402 Fireseal Silicone is specifically developed for fire resistant sealing of connection and expansion joints in construction and is fire resistant in case of fire. Prevents the expansion of fire, smoke or toxic gases. Fire resistance tested according to EN 1366-4 up to 120 minutes in a gap of 40mm wide. Combined with Bostik FP 404 Fire Retardant PU (Gun)Foam up to 180 minutes in a gap of 40mm wide. 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 (movement) joints
- Can be applied in joints up to 40mm wide
- CE classification: EN 15651-1: F-EXT-INT-CC 25LM
- CE classification: EN 15651-2: G-CC 25LM
- Joint movement up to 25%
- Excellent application, does not slump
- UV, water and weather resistant
- Also for external use
- Not paintable
- Fire behavior: B1 (DIN4102 - Part 1)
- A+ French VOC Regulation

### METHOD OF USE

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

**Preparation:** FP 402 Fireseal Silicone 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 402 Fireseal Silicone with a manual or pneumatic application gun. Carefully spray FP 402 Fireseal Silicone against the joint walls and then press firmly during finishing.

**Finishing:** Within 7 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 from 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, PTFE, 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 displacement is applied to the joint.

## PEUTZ REPORT BOSTIK FP 402 FIRESEAL SILICONE

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 402 Fireseal Silicone from Peutz fire safety laboratory. This report specifies the correct classifications of Bostik FP 402 Fireseal Silicone in various joint constructions.

## STORAGE STABILITY

Store in unopened packaging in dry conditions between +5 and +25 °C. Shelf life 12 months after production. Has a limited shelf life once packaging has been opened.

## FURTHER INFORMATION

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

Technical data	
Base	neutral oxim
Application temperature	+5°C to +40°C
Density	1.24 g/ml (ISO 1183-1)
Skin formation	7-8 minutes (at +23°C/50% RH)
Elongation at break	635% (DIN 53504 S2)
Shore A	20 (DIN 53505)
Tensile strength	1,30 N/mm <sup>2</sup> (DIN 53504 S2)
Application rate	150 g/min (Ø3mm/6,3 bar)
100% Modulus	0,40 N/mm <sup>2</sup> (DIN 53504 S2)
Curing time	2mm/24 hours (at +23°C/50% RH)
Flow resistance	<2mm (ISO 7390)
Joint movement	25%
Temperature resistance	-40°C to +120°C
Packed per	box of 12 cartridges
Pallet quantity	1248 cartridges

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

Article number	Colour	Packaging
30612844	white	cartridge 310 ml
30612849	(concrete)grey	cartridge 310 ml
30612845	black	cartridge 310 ml

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