

Fire Silicone B1 FR

Revision: 29/08/2018

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Technical data

Basis	Polysiloxane
Consistency	Stable paste
Curing system	Moisture curing
Skin formation* (23°C/50% R.H.)	Ca. 20 min
Curing speed * (23°C/50% R.H.)	Ca. 1 mm/24h
Hardness**	16 Shore A
Density**	Ca. 1,26 g/ml
Elastic recovery (ISO 7389)**	> 90 %
Maximum allowed distortion	± 25 %
Elasticity modulus 100% (ISO 37)**	0,20 N/mm ²
Elongation at break (ISO 37)**	900 %
Temperature resistance**	-40 °C → 140 °C
Application temperature	1 °C → 30 °C
Fire resistance (EN 13501-2) **	≤ 240 min

* These values may vary depending on environmental factors such as temperature, moisture, and type of substrates. ** This information relates to fully cured product.

(**) this value is dependent on the joint- or penetration seal configuration and the joint- or penetration seal dimensions

Product description

Fire Silicone B1 FR is a high-quality, fire-resistant, smoke-tight, neutral, elastic, one component joint sealant based on silicones.

Properties

- High level of fire retardation
- Sealant for preventing the passage of smoke and gas.
- Very good adhesion on many materials
- Permanently elastic after curing (without fire load)
- Very easy to apply.
- Colourfast and UV resistant
- Low modulus
- Not paintable

Applications

- Fire retardant expansion and connection joints in the construction industry.
- Fire-resistant sealing of connection joints.
- As part of the 'Soudal Fire Range' assortment for penetration seals and joints.

Packaging

Colour: grey, white

Packaging: 310 ml cartridge, 600 ml sausage

Shelf life

9 months in unopened packaging in a dry and cool storage at temperatures between +5°C and +25°C.

Substrates

Substrates: Various porous and non-porous surfaces such as wood, concrete, stone and other materials commonly used in construction. Not suitable for bitumen, PP, PE, PTFE and silicones.

Nature: rigid, clean, dry, free of dust and grease.

Surface preparation: Porous surfaces should be treated with Soudal Primer 150. Prepare non-porous surfaces with Soudal primer or cleaner (see Technical Data Sheet). We recommend a preliminary adhesion and compatibility test on every surface.

Remark: This technical data sheet replaces all previous versions. The directives contained in this documentation are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications which are out of our control, we cannot accept any responsibility for the results obtained. Since the design, the quality of the substrate and processing conditions are beyond our control, no liability under this publication is accepted. In every case it is recommended to carry out preliminary experiments. Soudal reserves the right to modify products without prior notice.

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Joint dimensions

Consult the 'Fire Range Installation Instructions Openings and Sealing' on the Soudal website for the correct joint dimensions depending on the required fire resistance.

Application method

Application method: With manual- or pneumatic caulking gun.

Cleaning: Clean with White Spirit or Soudal Surface Cleaner immediately after use (before curing).

Finishing: With a soapy solution or Soudal Finishing Solution before skinning.

Repair: With the same material

Health- and Safety Recommendations

Take the usual labour hygiene into account. Consult label and material safety data sheet for more information.

Remarks

- Fire Silicone B1 FR is not paintable.
- There is a risk for staining on porous surfaces such as natural stone.

Standards and certificates

- European Technical Approval Firesilicone B1 FR - ETA 13/0336
- CE-marked (BCCA - EC conformity CPR)
- Various test and classification reports in various accredited testing institutes: IFT Rosenheim, ITB Poland, Warrington Fire Gent, Warrington Fire Australia, Efectis Netherlands, Efectis France, CSTB France, CSI Italy.
- Testresults for penetration seals and/or joints with Fire Silicone B1 FR are freely accessible in the 'Fire Range Application manual Penetration seals and Joints' on the Soudal Website. The corresponding certificates can be obtained through the Soudal sales representatives or trough the Soudal Website.

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