



Fire Silicone B1 FR

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)
- Easy to apply
- Good UV resistance
- MEKO free
- Not suitable for natural stone
- Not paintable

Application

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



Technical data

Base	Polysiloxane	
Consistency	Stable paste	
Curing system	Moisture curing	
Specific Gravity (g/ml)	ca. 1.24	
Skin formation (minutes)	ca. 9	
Maximum allowed joint movement (%)	± 25	
Curing speed (mm/24h)	ca. 2	
Hardness (Shore A, Points)	18 ± 5	
Maximum Tension (N/mm ²)	ISO 37	ca. 1.45
Elastic Recovery (%)	ISO 7389	> 90
Elasticity Modulus (N/mm ²)	ISO 37	
Elongation at Break (%)	ISO 37	≥900
Temperature Resistance (°C)	-40 to +180	
Application Temperature (°C)	+5 to +35	

Footnote: Skinning time and curing speed may vary depending on environmental factors such as temperature, moisture, and type of substrates.

Substrates

- Substrate condition
The surface must be rigid, clean, dry, free of dust and grease.
- Substrate preparation
Porous surfaces should be primed with Primer 150. If needed non-porous surfaces can be prepared with a Soudal activator or cleaner.



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■ Substrate types

Fire Silicone B1FR has a good adhesion to all usual building substrates.

Fire Silicone B1FR is not suitable for PE, PP, PTFE (Teflon®), and bituminous substrates.

Due to the wide variety of materials used in façade technology a preliminary compatibility test is necessary.

Joint Size

Joints in window glass and in window connections

Top sealing = minimum width 4 mm, depth at least 6mm

Minimum width window connection joints : 10 mm.

Weather seal and Other Application:

Three-point adhesion should be avoided at all times. Too small joint dimensions can have the effect that the silicone is pulled off because of too large movements.

Joint Width	Joint Depth
5 to 10 mm	5 mm
10 to 30 mm	Depth = ½ x Width

Application method

■ Application method

Apply the product with a manual, pneumatic or a battery-operated caulking gun.

■ Cleaning method

Swiftly clean with white spirit after usage to prevent residue accumulation & maintain equipment efficacy. Cured product must be removed mechanically.

■ Finishing method

Utilize soapy water to wipe away excess caulking or sealant before it dries, ensuring a polished appearance.

■ Repair method

Address any imperfections with Fire Silicone B1FR sealant, filling gap and smoothing for a flawless finish.

Health and Safety Recommendations

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

Keep the area well-ventilated during use and curing of the product.

Dangerous. Respect the precautions for use.

Packaging/Logistics

Colour: White, Grey, Black

Packaging: 300ml Cartridge, 600ml Sausage

Shelf life: 12 months from the date of production. The product must be stored in its original, undamaged, and sealed packaging under dry conditions, protected from direct sunlight, and at temperatures between +5°C and +25°C.



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Remarks

- Fire Silicone B1FR is not paintable.
- Do not use on natural stones like marble, granite,...(staining).
- A total absence of UV can cause a color change of the sealant.
- Discoloration of the product due to chemicals, high temperatures, UV-radiation may occur.
- In an acid environment or in a dark room, a white sealant can slightly turn yellow. Under the influence of sunlight it will turn back to its initial color.
- When finishing with a finishing-or soapy solution, make sure that the surfaces are not touched by this solution. This will cause the sealant not to adhere to that surface. Therefore we recommend to only dip the finishing tool in this solution.
- We strongly recommend not to apply the Finishing Solution in full sunlight as it will dry very fast in these circumstances.
- Not suitable for bonding aquariums.
- Do not use in applications where continuous water immersion is possible.
- When using different reactive joint sealants, the first joint sealant must be completely hardened before the next one is applied.
- Contact with bitumen, tar or other plasticizer releasing materials such as EPDM, neoprene, butyl, etc. is to be avoided since it can give rise to discoloration and loss of adhesion.
- Do not use on polycarbonate.
- Do not use as a structural glazing adhesive.
- When applying, make sure not to spill any sealant on the surface of materials next to the joint. Using tape on the surface next to the joint can prevent this.

This technical data sheet supersedes all earlier versions. The information provided is based on our tests and practical experience and is supplied in good faith as general guidance only, without creating any liability. Since materials, substrates, application design, and processing conditions vary widely and are outside our control, we cannot accept responsibility for the results obtained from use of this information. The user must verify suitability for the intended application through their own testing, and preliminary trials are recommended in all cases. The manufacturer reserves the right to change product specifications without prior notice.