

## **FIRESILICONE B1 FR**

**Date:07/06/10**

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### **Technical Data:**

Base	Polysiloxane
Consistency	Stable Pasta
Curing System	Moisture Cure
Skin Forming	Ca 20 min. (20°C/65% R.H.)
Curing Rate	1mm/24h
Shore A Hardness	16 Shore A
Specific Gravity	Ca 1,17g/cm <sup>3</sup>
Temperature Resistance	-40°C until +140°C
Elongation at Break	900% (DIN52455)
E-Modulus 100%	0,20N/mm <sup>2</sup> (DIN52455)
Elastical Recovery	>90% (DIN52455)
Maximum Deformation	±25%

### **Product:**

Firesilicone B1 FR is a high quality, neutral, elastic, one-component sealant based on silicones which conforms to the DIN4102 B1 standard for fire retardancy and has a fire rating of up to 4 hours in certain joint configurations (EN 1366 Part 4 – NN713.020 – BS 476/20).

### **Characteristics:**

- Very easy to apply
- Colourfast and UV-resistant
- Remains permanently elastic after full cure
- Very good adhesion on most surfaces
- Low modulus
- DIN 4102-Part 2: Class B1
- Up to 4 hours fire rating with normal PE backing material (see table enclosed)

### **Applications:**

All building and glazing joints which require a fire rating and fire rated joint and perimeter sealing. Also applicable for sealing joints/perimeters on all types of fire doors and access doors. Fire rated expansion joints

### **Packaging:**

*Colour:* grey, white  
*Packaging:* cartridge 300ml

### **Shelf life and storage:**

9 months from date of manufacturing in unopened packaging stored in a cool and dry place at recommended temperatures between +5°C and +25°. Do not expose to frost.

### **Surfaces:**

*Type:* all usual porous and non-porous building materials  
*State of Surface:* clean, dry, free of dust and grease  
*Preparation:* porous substrates should be primed with Primer 150. Soudal Surface Activator will improve adhesion on smooth surfaces.  
We recommend a preliminary compatibility test.

### **Joint Size:**

*Minimum Width:* 5mm  
*Maximum Width:* 30mm  
*Joint configuration:* width = 2x depth

**Remark:** 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. In every case it is recommended to carry out preliminary experiments.

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**Application:**

*Method:* caulking gun  
*Backing material:* PE backer rods for correct joint dimension  
*Application temperature:* +1°C to +35°C  
*Clean:* with white spirit  
*Repair:* with Firesilicone B1 FR  
*Finish:* with soapy solution

**Approvals:**

- Test Report 9297 – University of Ghent to
- NBN 713.020 – EN 1366-4
- BS 476:Part 20 – Warrington Fire Research Report
- DIN4102-B1 – Institut für Bautechnik, Berlin
- TNO-rapport 2000-CVB-R00703

**Health- and Safety Recommendation:**

Apply the usual industrial hygiene.

**Test Results – Test Report 9297:**

Wall Thickness	Width of Joint	Depth of Joint	Application	Fire Rating
100mm	11mm	10mm	Doublesided	146 min. TI Rating EI 120 202 min. FR Rating E 180
100mm	33mm	20mm	Doublesided	116 min. TI Rating EI 90 187 min. FR Rating E 180
200mm	11mm	10mm	Doublesided	>240 min. TI >240 min. FR Rating EI 240
200mm	31mm	20mm	Doublesided	225 min TI Rating EI 180 >240 min. FR Rating E 240

TI = Thermal Insulation; the time during which the temperature on the unexposed side of the wall does not rise by more than 180°C

FR = Flame Resistance; the time during which the joints stops flames from penetrating the wall

Fire Rating: Draft European Commission Decision RG N170 REV.1

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