

Code	Description	Size	Colour
20165	Gorilla Firesil Silicone	310ml	Grey

## 1. Description

Gorilla Firesil Silicone 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).

## 2. 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 – refer to [www.soudal.co.nz](http://www.soudal.co.nz) for specific details

## 3. Technical Data

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

\* This can vary according to environmental circumstances such as temperature, humidity, substrate, etc.

## 4. Applications

- All linear building and glazing joints which require a fire rating
- Fire rated expansion joints

## 5. Packaging

Cartridge 310ml (net content)

## 6. Shelf Life

12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C and +25°C. Do not expose to frost.

## 7. Application Instructions

### Surfaces

Type: All usual porous and non-porous building materials  
State: Clean, dry, free of dust and grease  
Preparation: Porous substrates; Surfaces such as lightweight aerated concrete, masonry plasters and other surfaces regarded as very porous should be primed with Primer 150. Non-porous substrates; due to the wide range of materials, coatings and surface finishes we recommend to test to verify adhesion to determine the correct adhesion promoter. Preparing the surface with Gorilla 696 Surface Activator will maximise adhesion.

*Due to the range of substrates on the market recommend preliminary compatibility tests prior to commencement of application.*

### Joint Size

Minimum Width: 5mm  
Maximum Width: 30mm  
Joint Configuration: width = 2xdepth

### Application

Method: Caulking Gun  
Backing Material: PE backer rods for correct joint dimension  
Application Temperature: +1°C to +30°C  
Clean: With Gorilla Solvent Cleaner  
Repair: With Gorilla Firesil Silicone  
Finish: With soapy solution

### Approvals

- to AS1530.4 and AS4072.1
- EWFA Report No. 23751-02
  - EWFA Report No. 45717-02
  - Various applications with fire doors

#### Linier Joints – Vertical & Horizontal – Aerated Concrete

Wall Thickness (mm)	Gap Width (mm)	Seal Depth (mm)	Backing Material	Seal	FRL
200	10	10	Gorilla PEF	Exposed	-/240/240

#### Linier Joints – Vertical – Aerated Concrete

Wall Thickness (mm)	Gap Width (mm)	Seal Depth (mm)	Backing Material	Seal	FRL
200	11	10	Gorilla PEF	Both Faces	-/240/240
200	31	20	Gorilla PEF	Both Faces	-/240/180
100	33	20	Gorilla PEF	Both Faces	-/180/90
100	11	10	Gorilla PEF	Both Faces	-/180/120

## 8. Health and Safety Recommendation

- Apply the usual industrial hygiene.
- For more detailed information, please refer to the SDS.

### Remark

The directives and data contained in this documentation is provided in good faith and accurately reflect Soudal's knowledge when its products are properly stored, handled and applied under normal conditions in accordance with Soudal's recommendations. In practice, the diversity of the materials, substrates, environments, site conditions, product storage, handling and application are such that no warranty can be given in respect to the merchantability or fit for purpose, of any product. All users must determine the product suitability for their purposes through testing. This technical data sheet and product properties may change without notice so users, suppliers and retailers of Soudal products should always check that the data sheets they have are the latest. To the maximum extent permitted by law, Soudal disclaims all warranties in relation to either the manufacture, storage and end use of the product. All orders are accepted subject to our current terms of trade. **If any clarification is required, please contact Soudal Technical Services or email [info@soudal.co.nz](mailto:info@soudal.co.nz).**

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