



# Fireseal Silicone

## FIRE RESISTANT SILICONE SEALANT

Date: 7 August 2018

Fact Sheet No.: TDS00165

### YOUR SMART ADVANTAGES

- Resists the passage of fire for up to 4 hours depending on application
- Excellent adhesion to wide variety of substrates
- Suitable for external use

### USES

Bostik Fireseal Silicone Sealant provides excellent adhesion to a wide range of substrates including masonry, will not slump in joints up to 25mm wide. Suitable for internal and external use.

Can be used in both movement and non-movement linear joints, i.e. for open butt joints in screens, partitions and structural walls.

### PRODUCT CHARACTERISTICS

Colours	White and Grey
Form	Gunnable paste
Specific Gravity	1.4 approx.
Composition	Blend of siloxane polymers, reinforcing fillers and fire retardant chemicals
Product Codes	30811567 White C20 x 12 30812263 Grey C20 x 12 30814538 White C20 x 6
Storage/Shelf Life	Store for up to 12 months from the date of manufacture when stored in original, unopened packaging under cool, dry conditions within the temperature range of +5°C to +25°C and out of direct sunlight. Protect from frost.

### TYPICAL PERFORMANCE DATA (Approx.)

Application Temperature	+5°C to +40°C
Service Temperature	-40°C to +120°C
Coverage	Approx. 10 linear metres of 6mm diameter bead per C20 cartridge.
Drying Times	Skin Formation: Within 1 hour of application Through Dry: 48 to 72 hours depending on joint thickness and drying conditions
Adhesion	Excellent to most clean, dry surfaces
Joint Dimensions	4mm to 25mm
Joint Movement Accommodation	±25%
Shore A Hardness (3s)	20 (DIN 53505)
Modulus 100% Elongation	0.40 MPa (N/mm <sup>2</sup> ) (DIN 53504)
Tensile Strength	1.22 MPa (N/mm <sup>2</sup> ) (DIN 53504)
Elongation at Break	635% (DIN 53504)
Service Life	Up to 25 years
Reaction to Fire	Independently tested in accordance with EN 1366-4:2006+A1:2010 and the extended application in accordance with EN 15882-4:2012, the system was classified in accordance with EN 13501-2:2007+A1:2009. Achieves up to 4 hour fire resistance

on a variety of wall linear gap seals measuring 5x5mm – 25x15mm.

Classification of fire resistance is connecting stone to stone.

For more details of fire test contact Bostik Technical Services.

Results will vary when applied at different rates and/or onto other substrates.

## DIRECTIONS FOR USE

IMPORTANT: Before using Bostik Fireseal Silicone Sealant refer to the relevant Health & Safety Data Sheet, available at [www.bostik.co.uk](http://www.bostik.co.uk).

## PREPARATION

1. Bostik Fireseal Silicone Sealant exhibits good adhesion to most building substrates, including brickwork, stone and other porous materials.
2. If a protective lacquer or coating has been used to protect surfaces such as metals, the manufacturer's instructions regarding cleaning and removal should be followed and a trial carried out to ensure the adhesion of the sealant.
3. Bostik Fireseal Silicone Sealant has good adhesion to painted timber provided the paint film is clean and sound and is firmly bonded to the timber.
4. Bostik Fireseal Silicone Sealant exhibits good adhesion to some plastics and rubbers but trials should be carried out prior to use to determine what surface treatment is necessary, if any.
5. All surfaces must be sound, clean, dry and free from oil, grease, dust and other loose material.
6. Loose and friable materials should be removed from porous substrates mechanically.
7. In joints subject to high movement where the substrate is porous, the joint surface should be primed with a silicone primer suitable for porous substrates.

## APPLICATION

8. Cut off the dome of the cartridge, taking care not to damage the thread. Cut the nozzle to the required diameter and screw the nozzle onto the cartridge.
9. Insert the cartridge into a gun and squeeze the trigger until the sealant appears.
10. The sealant must be gunned firmly into the joints to ensure good adhesion to the joint surfaces. At the end of the run, release the trigger and press the plunger release plate of the gun.
11. The sealant surface can be tooled to a smooth finish using a tooling stick or trowel dipped in diluted

detergent within 3 to 5 minutes of application. Do not use a wetted finger.

## CLEANING

### Uncured Sealant:

12. Removed unwanted sealant and clean tools with white spirit before the sealant cures. Do not wash hands with solvent.

### Cured Sealant:

13. Cured sealant must be removed mechanically; any residues may affect the adhesion of any other sealant applied to that area.

## PRECAUTIONS IN USE

Bostik Fireseal Silicone Sealant should not be used in situations where abrasion from pedestrian or vehicular traffic may be encountered. Do not use in submerged joints in porous substrates that may permit water to reach the bond interface. Do not allow the sealant to come into contact with bitumen, which may induce plasticiser migration.

Bostik Fireseal Silicone Sealant should not be painted as the adhesion of the paint will be poor, leading to flaking. Do not apply to granite, natural stone or marble due to the risk of edge staining.

Do not use in conjunction with secondary sealants as plasticiser migration may occur.

For any application not covered please contact Technical Services on +44 (0)1785 272625 or visit [www.bostik.co.uk](http://www.bostik.co.uk) for advice.

Recommendations and suggestions are for guidance only, since conditions of use are completely beyond our control.

For health and safety instruction, first aid measures and spillage and disposal instructions, see separate Health and Safety Data Sheet for Bostik Fireseal Silicone Sealant, available at [www.bostik.co.uk](http://www.bostik.co.uk).

BOSTIK HOTLINE

Smart help +44 (0) 1785 272625



**CONSTRUCTION PRODUCT REGULATION  
DECLARATION OF PERFORMANCE**

Product Description: **Bostik Fireseal Silicone Sealant (White & Grey)**  
 Product Code: **5000403100289, 5000403100302**  
 Intended Use: **Façade Sealant**  
 Manufacturer: **Bostik Ltd**  
 Contact Address: **Common Road  
Stafford  
ST16 3EH**  
 System of Assessment: **System 3**  
 Harmonised Standard: **BS EN 15651-1:2012**  
 Notified Body: **0074**

Declared Performance:

Essential Characteristics	Performance	Harmonised technical specification
Reaction to Fire	<b>F</b>	
Release of Chemicals	<b>None</b>	<b>See Material Safety Data sheet</b>

Water Tightness & Air Tightness as determined by:

Resistance to Flow	<b>NPD</b>	<b>BS EN 15651-1:2012</b>
Loss of Volume	<b>NPD</b>	
Tensile properties at maintained extension after immersion in water at 23°C*	<b>NF</b>	
Microbiological Growth	<b>NPD</b>	
Durability	<b>NPD</b>	

**\*Conditioning method A, tested on Aluminium Substrate, no primer**

The performance of the Bostik Fireseal Silicone Sealant, 5000403100289, 5000403100302 is in conformity with the declared performance shown in the table above.

This declaration of performance is issued under the sole responsibility of Bostik Ltd.

**Signed for and on behalf of Bostik Ltd by:**

**Name:** Alison Jamieson

**Function:** S.H.E.Q. Manager

**Signature:** 

**Date:** June 2014

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