

Fireseal Silicone

FIRE RESISTANT SILICONE SEALANT

Date: 23 November 2015

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 joints, i.e. for open butt joints in screens, partitions and structural walls. Shown to be effective as a service penetration seal for both metal pipes and cables, particularly where movement is a factor, i.e. hot/cold water pipework.

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)	24 (DIN 53505)
Modulus 100% Elongation	0.40 MPa (N/mm ²) (DIN 53504)
Tensile Strength	1.80 MPa (N/mm ²) (DIN 53504)
Elongation at Break	700% (DIN 53504)
Service Life	Up to 25 years
Reaction to Fire	Independently tested to the conditions of BS 476: Part 20: 1987 to give up to 4 hours integrity in suitable structures

DIRECTIONS FOR USE

IMPORTANT: Before using Bostik Fireseal Silicone Sealant refer to the relevant Health & Safety Data Sheet, available at 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 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.

BOSTIK HOTLINE

Smart help +44 (0) 1785 272625



FM 01696
BS EN ISO 9001:2008

Bostik Limited, Common Road, Stafford, ST16 3EH, UK. Tel: +44 (0) 1785 272625 www.bostik.co.uk

Bostik, Evo-Stik & Sealocrete are registered trademarks of Bostik Ltd.

**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	F	
Release of Chemicals	None	See Material Safety Data sheet

Water Tightness & Air Tightness as determined by:

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

***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



Bostik Limited, Common Road, Stafford, ST16 3EH, UK. Tel: +44 (0) 1785 272625 www.bostik.co.uk
Bostik, Evo-Stik & Sealocrete are registered trademarks of Bostik Ltd.

This disclaimer is issued by Bostik Limited ("the Company") and applies to the use of any products supplied by the Company ("the Products") displayed on this Technical Data Sheet ("TDS"). Please read this disclaimer carefully before using any of the Products. Using this TDS and/or the Product constitutes your acceptance of this disclaimer. Its contents shall prevail over any directions of use and any disclaimer and/or exclusion or limitation of liability of the Company which may appear on the packaging of the Products.

This disclaimer sets out the entire financial liability of the Company (including any liability for the acts or omissions of its employees, agents and sub-contractors) to any user of the Products ("Product User") in respect of any use made or resale by the Product User, of any of the Products in this TDS.

This disclaimer does not affect the Company's liability for death or personal injury arising from the Company's negligence in respect of the Products, nor its liability for fraud, or fraudulent misrepresentation, nor any other liability which cannot be excluded or limited under applicable law.

The Company's total liability however arising and whether caused by tort (including negligence and breach of statutory duty), breach of contract or otherwise, arising in connection with the use made or resale by the Product User of any of the Products in this TDS shall be limited to the price paid for the Product by the Product User.

The Company shall not be liable to the Product User for any pure economic loss, loss of profit, loss of business, depletion of goodwill or otherwise, in each case whether direct, indirect or consequential, or any claims (including in respect of personal injury insofar as not caused by the Company's negligence) for consequential compensation whatsoever (howsoever caused) which arise out of or in connection with the use made or resale by the Product User of any of the Products in this TDS.

The Company shall not be liable to the Product User in relation to any loss for any use which is inappropriate or use which is otherwise than in accordance with the relevant instructions for use of the Products in this TDS or on the Product. Product Users are advised to confirm the suitability of the Products by their own tests.

This TDS covers just one of a large range of products supplied by the Company.

Full information on these products and advice on application is freely available from our fully trained staff throughout the country. In addition, specialist technical advice is available from our Technical Services Department. This TDS supersedes all previous TDSs relating to the Products, and users of it must ensure that it is the current issue. Destroy all previous TDS, and if in any doubt, contact the Company, quoting the code number in the top right hand corner on the front of this document.

Sales	Tel: 0844 371 1192	Fax: 01785 241818	customer.service@bostik.com
Technical Advice	Tel: 0844 371 1197	Fax: 01785 272867	technical.service@bostik.com
Technical Data & COSHH (MSDS) Data Sheets	Tel: 01785 272625	Fax: 01785 212962	stafford.gatehouse@bostik.com



FM 01696
BS EN ISO 9001:2008

Bostik Limited, Common Road, Stafford, ST16 3EH, UK. Tel: +44 (0) 1785 272625 www.bostik.co.uk
Bostik, Evo-Stik & Sealocrete are registered trademarks of Bostik Ltd.