



Fireseal Silicone

Fire Resistant Silicone Sealant

TECHNICAL SHEET NO: TDS00165 11/07/2023

SMART ADVANTAGES

- Resists the passage of fire and smoke in linear gap joints for up to 4 hours depending on application
- Accommodates joint movement up to 25%
- Suitable for internal and external use

DESCRIPTION

Bostik Fireseal Silicone Sealant was specifically developed for fire resistant sealing of connection and expansion joints. Bostik Fireseal Silicone Sealant will not slump in joints up to 25mm wide. Suitable for internal and external use in both horizontal and vertical joints orientations. Can be used in both movement and non-movement linear joints, i.e., for open butt joints in suitable structural walls constructed from stone or concrete.



TECHNICAL CHARACTERISTICS

Colour	White
Form	Gunnable paste
Specific Gravity	1.24 g/ml
Shore A hardness	19
Composition	Blend of siloxane polymers, reinforcing fillers and fire-retardant chemicals
Application Rate	130 g/min
Application temperature	+5°C to +40°C
Curing time *	Skin Formation: 8 minutes, @23°C /50% RH (Relative Humidity).
Elongation at Break	550%
Joint Movement	±25%
Temperature Resistance	-50°C to +120°C
Tensile Strength	1.30 N/mm ²
Service Life	Up to 25 Years
Reaction to Fire	Independently tested in accordance with EN 1366-4 and the extended application in accordance with EN 15882-4, the system was classified in accordance with EN 13501-2. 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.

*Cure through: Approx. 2mm/24 hours at 23°C/ 50% RH. Fully cured in approx. 7 days depending on joint dimensions, temperature and humidity.

COVERAGE

- Approximately 10 linear metres of 6mm diameter bead per C20 cartridge.

APPLICATION

IMPORTANT: Before using Bostik Fireseal Silicone refer to the relevant Health & Safety Data Sheet, available at www.bostik.com/uk.

PREPARATION

- Bostik Fireseal Silicone Sealant exhibits good adhesion to most building substrates, including brickwork, stone and other porous materials.
- All surfaces must be sound, clean, dry and free from oil, grease, dust and other loose material.
- Loose and friable materials should be removed from porous substrates mechanically.
- 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.
- Suitable backing material should be compressed into the gap/joint to create a pocket of the correct depth for the sealant to finish flush with the surface of the wall.

APPLICATION

- Dilute 1 part EVO-STIK General Purpose PVA to 4 parts waters by volume. Apply to the surfaces and allow to dry.
- 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.
- Insert the cartridge into a gun and squeeze the trigger until the sealant appears.
- 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.
- 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:

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

Cured Sealant:

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

STORAGE

- Store for up to 18 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.

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.

The suitability of materials for fire applications should always be confirmed by consulting the classification and test reports prior to the commencement of works.

For any application not covered, please contact Technical Services on +44 (0)1785 272625 or visit www.bostik.com/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, available at www.bostik.com/uk.

PACKAGING

Product codes	30624633	White C20 x 12
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1213	UK CA	22
DOP available on: www.bostik.com/uk TDS Number: TDS00165 DoP nr: White: 645-21-3189		
EN 15651-1 EXT-INT-CC EN 15651-2 G-CC		
Facade & Glazing Sealant		

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