

Technical Data Sheet

BS-2550 FireStop Silicone Sealant



Features

- ◆ Fire rating up to 4 hours (BS EN 1366-4: 2006)
- ◆ ASTM C920 compliant (±25% movement capability)
- ◆ Excellent weather and UV resistance
- ◆ Excellent adhesion to most substrates
- ◆ Matte finish

Available Colors

- ◆ Matte Grey
- ◆ Matte Black

Packaging

- ◆ 300 ml (cartridge)~24/carton

Storage

- ◆ Store in a dry and cool place with temperature below 30 °C.
- ◆ Use within 12 months from date of production.

Product Specification

Curing System	: Moisture Curing, Neutral
Appearance	: Non-Sagging Paste (Before Curing) : Elastic Rubber (After Cured)
Density	: 1.28 gm/ml
Slump (ASTM D2202)	: <1 mm
Maximum Tensile Strength (ASTM D412)	: 1.4 N/mm ²
Elongation at Break (ASTM D412)	: 300 %
Shore A Hardness (ASTM C661)	: 33
Movement Capability (ASTM C719)	: ±25 %
VOC Content (USEPA Test Method 24)	: 43.83 gm/L
(USEPA Method 310)	: 3.46%
Tack-free Time (at 25 °C & 50% R.H.)	: 60 – 90 minutes
Application Temperature	: -20 °C to 50 °C
Service Temperature	: Up to 150 °C

Description

A single-component, gun-grade, ready-to-use neutral silicone sealant formulated to form an elastomeric fire retardant seal in construction applications. It helps control the spread of fire, smoke, and toxic fumes within a given area surrounded by firewalls for a period of up to four hours, depending on joint configuration.

Applications

Recommended for firestop sealing of interior and exterior building and construction movement joints or openings, where a fire rating of up to 4 hours is required. In addition, it is used in mechanical, electrical, and plumbing applications like sealing openings or service penetrations through fire-rated ceiling, floor, or wall.

Application Direction

1. Surfaces must be clean, dry and free of dirt, grease, oil or water.
2. Install backing material to control the depth of sealant bead in accordance with the fire rating that is required.
3. For a neat finish, apply masking tape and remove it before sealant skins over.
4. Cut nozzle at 45° angle to desired bead-width and apply sealant to substrate with cartridge gun.
5. Tooling time is 20 minutes, tack-free time is 30 minutes.

Clean Up

- ◆ Wet sealants can be cleaned up with acetone or mineral spirits.
- ◆ Cured sealants can only be removed mechanically.



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Joint Design

- The specified sealant bead size should be calculated to comply with the compression and extension capabilities of the sealant in relation to the anticipated joint width due to expansion and contraction.
Generally calculation of the width sealant bead should be computed on the basis of a maximum ±25 % movement capability
Minimum bead size should not be less than 6 mm to accommodate movement.
Sealant design joint width-to-depth ratio should be 2:1.

Coverage

Table with 3 columns: Width, Depth, Coverage (300 ml) *. Rows include 6mm, 10mm, 20mm, 25mm widths and 6mm, 10mm, 12mm depths.

* The coverage figures shown above are approximate lineal meter run based on 10% wastage assumption. Actual coverage may vary.

Calculation formula:

X / [(Y x Z) x 1.1] = Coverage

X = volume of cartridge (or sausage) in ml,
Y = joint width in cm, Z = joint depth in cm,
1.1 = 10% wastage assumption,
Coverage = lineal meter run in cm per cartridge (or sausage)

Limitation

Not recommended for following applications:

- Structural glazing applications.
Below waterline or permanent water immersion.
Traffic areas subject to abrasion.
Polycarbonate and polyacrylate, if under tension.
Applications that requires the sealant to be painted.

Caution

Product releases methylethylketoxime during application and curing. Contains aminosilane. May cause an allergic skin reaction. Avoid breathing vapours. Contaminated work clothing should not be allowed out of the workplace. Wear protective gloves. IF ON SKIN: Wash with soap and water. If skin irritation or a rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. Keep out of reach of children. Use in well ventilated areas. Safety data sheet available on request. For further health and safety information, consult the latest safety data sheet.

Every endeavour has been made to ensure that the information given herein is true and reliable but it is given only for the guidance of our customers. The company cannot accept any responsibility for the loss or damage that may result from the use of the information, due to the possibility of variations of processing or working conditions and of workmanship outside our control. Users are advised to confirm suitability of this product by their own tests.