

Technical Data Sheet

BS-2550 FireStop Silicone Sealant



Features

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

Available Colors

- ◆ Matte White
- ◆ 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 | : Approx. 1.27 g/mL |
| Slump (ASTM D2202) | : <1 mm |
| Tensile Strength (ASTM D412) | : >1.0 N/mm ² |
| Elongation (ASTM D412) | : >300 % |
| Shore A Hardness (ASTM C661) | : 20 – 35 |
| Movement Capability (ASTM C719) | : ± 25 % |
| 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

Directions

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 $\pm 20\%$ movement capability
- ♦ Minimum joint depth should not be less than 6 mm to accommodate movement.
- ♦ Sealant design joint width-to-depth ratio should be 2:1.

Coverage

| Width | Depth | Coverage (300 ml) * |
|-------|-------|---------------------|
| 6 mm | 6 mm | 7.58 meter |
| 10 mm | 10 mm | 2.73 meter |
| 20 mm | 10 mm | 1.36 meter |
| 25 mm | 12 mm | 0.91 meter |

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

- Calculation formula:

$$X / [(Y \times Z) \times 1.1] = \text{Coverage}$$

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.

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