

# SN-506

## FIRE GUARD SILICONE SEALANT

### Description:

SN-506 Fire Guard Silicone Sealant is one part high modulus fire rated silicone sealant that form a fire retardant seal for building. It helps to control the spread of fire, smoke, and toxic fumes within a given area surrounded by firewall up to 240 minutes.

### Features:

- ◆ Up to 4 hours classified fire protection BS476 Part 20
- ◆ Excellent adhesion & non-sagging
- ◆ Waterproof seal
- ◆ Permanently flexible
- ◆ Non-corrosive to metals
- ◆ Low shrinkage & odourless
- ◆ Suitable for indoor & outdoor use

### Uses:

General glazing: masonry, concrete, ceramics stone, glass, aluminum, most plastics, wood, brick, zinc, galvanized iron.

General sealing: containers, automobiles, rain water goods, roofing, joints in building and civil engineering.

DIY applications: gutter, air-conditioning, sanitary, car, boat and other marine industry uses.

Electronics sealing: as sealants in the electrical and electronics industry.

**We recommend preliminary compatibility tests prior to application to achieve desirable results**

### Not recommended for:

SN-506 is a neutral (oxime) curing silicone. As with other silicone sealants, it is

Not for: traffic areas or areas subject to abrasion.

Not for: paints coating.

Not for: poly-carbonate or polyacrylate if they under tension.

Not for: copper materials.

### 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 of SN-506 sealant bead should be computed on the basis of a maximum  $\pm 30\%$

Compression and extension capability minimum bead size should not be less than 10mm to accommodate movement. Design joint depth of which ratio width becomes 0.5 to 1.

Suitable joint depth vs width:

10mm x 20mm

- \* Joint size minimum 3mm x 3mm.
- \* Joint size maximum 30mm.

### Application:

- ◆ Surface must be clean and dry.
- ◆ Mask smooth surface to simplify clean up.
- ◆ Use approved back-up material in joint.
- ◆ Cut nozzle to desired size.
- ◆ Insert cartridge into caulking gun.
- ◆ Push sealant ahead for uniform bead.
- ◆ Tool within 5 minutes.
- ◆ Clean off excess sealant with M.E.K. Or toluene.

### Curing time:

SN-506 will tack free in approximately 15 minutes and will cure to a depth of 11 mm in 7 days. Longer curing time may be necessary in dry and low humidity area.



# TECHNICAL DATA SHEET

REV: 01 DATE: 23 MARCH 2021

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#### **Specification:**

Curing system	Neutral (oxime)
Appearance	Non-sagging paste
Odour	Low oxime smell
Specific gravity	1.5 ± 0.05
Shore a hardness	40 approx.
Elongation	320% approx.

Tensile strength	1.90mpa approx.
Tack free time	Within 30 minutes
Application temp.	-20°C to 50°C
Service temp.	-50°C to 150°C
Shelf life	12 months

#### **Storage:**

Material should be stored in a dry and cool place between +5°C to +30°C.

#### **Caution:**

Read and understand material safety data sheet of this product before handling or using.

*This information is provided in good faith and is believed accurate based on a review of current composition and information supplied by vendors. No warranty is expressed or implied. Liability is expressly disclaimed.*



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