

# Technical Data Sheet

## BS-2500/ BS-2500S Metal & Glazing Sealant



### Features

- ◆ Neutral, non-toxic curing system
- ◆ Non corrosive to metals, alkaline substrates and automobiles
- ◆ Outstanding durability
- ◆ Permanently flexible
- ◆ Excellent gun ability (-20°C to 50°C)
- ◆ Weather proof
- ◆ Low shrinkage
- ◆ No sagging
- ◆ Primerless adhesion to most materials

### Available Colors

- ◆ Translucent
- ◆ White
- ◆ Grey
- ◆ Black

### Packaging

- ◆ 300ml (cartridge)~24/carton
- ◆ 600ml (sausage)~20/ carton

## Product Specification

### Physical Specifications

Curing System		: Oxime
Appearance		: Paste
Odor		: Slight unique odor
Specific Gravity		: 1.04
Slump (w=20mm) JIS A 1439		: ≤1 mm
Tack-free Time JIS A 1439		: 6 – 20 minutes
Curing Time (t-5mm)		: 2 days
VOC Content (USEPA Test Method 24)		: 11 g/L
Application Temperature		: -20°C to 50°C
Service Temperature		: -50°C to 150°C

### Cured Properties

Appearance		: Elastic rubber
Hardness JIS K 6249		: Shore A 20 – 35
Tensile at Break JIS K 6249		: ≥ 1.0 MPa
Elongation at Break JIS K 6249		: ≥ 300%
Peel Strength		: 2.9 kN/m

## Description

A one-component, high performance, 100% neutral cure silicone sealant formulated to give superior adhesion and durability in a wide range of glazing, weather sealing and trade applications. It is compliant with **ASTM C920** and **South Coast Air Quality Management District (SCAQMD)**. It has excellent resistance to weathering, UV radiation, vibration, moisture, ozone, temperature extremes, airborne pollutants, and many cleaning detergents and solvents. It has been tested to conform to MS-1583: Part 1: 2003 – Suitability of Non-Metallic Product for Use in Contact with Water Intended for Human Consumption with Regard to Their Effect on the Quality of the Water.

## Applications

Well-suited for sealing metal lap joints in roofing, guttering and cladding applications. It will bond to form a strong weatherproof seal on most common building materials such as aluminium, galvanized and zinc-coated steel, painted surfaces, glass, brick, concrete and mirror bonding. It is suitable for both indoor and outdoor applications.

## Directions

1. Surface must be clean and dry.
2. Mask smooth surface to simplify clean up.
3. Use approved back-up material in joint.
4. Cut nozzle to desired size.
5. Insert cartridge into caulking gun.
6. Push sealant ahead for uniform bead.
7. Tool within 5 minutes.
8. Clean off excess sealant with M.E.K. or Toluene.



# BS-2500

## Metal & Glazing Sealant

### Limitation

BS-2500 Metal & Glazing Sealant 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 are under tension.

### 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 BS-2500 Metal & Glazing Sealant bead should be computed on the basis of a maximum  $\pm 30\%$  compression and extension capability.

Suitable Joint (width vs depth = 2:1, or 1:1 if width $\leq$ 12mm), example:

- ◆ 6mm x 6mm
- ◆ 10mm x 20mm
  
- ◆ Minimum joint width 6mm
- ◆ Maximum joint width 30mm.

### Caution

- ◆ Uncured adhesive / sealant causes skin and eyes irritation upon contact.
- ◆ Avoid contact with eyes, skin and mouth.
- ◆ In case of contact with eyes, flush with water immediately for 15 minutes. If irritation persists, seek medical attention.
- ◆ Keep out of reach of children. Use in well ventilated areas.
- ◆ EUH208-Contains 3-(2-Aminoethylamino) propyltrimethoxysilane. May produce an allergic reaction.

### Storage

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

### Limited Warranty Information

Bossil Technology provides material warranty for a duration of 10 years if the product is used within its shelf life and in compliance with industrial standard application procedures. Bossil Technology disclaims liability for any consequential or incidental loss or damages caused by incorrect usage. The material warranty only covers the replacement of the product without the other costs incurred, if the failure is proven to be directly related to the product within the warranty period. Material warranty will only be available once customer submits all the necessary documents and information, and an official material warranty letter is issued by Bossil Technology. Any claim of warranty shall be made directly to Bossil Technology in writing. Bossil Technology shall hold no responsibility until site inspection by representatives of Bossil Technology to confirm the alleged failure has been carried out.

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.