



## technical data sheet

# BOSTIK INDUSTRIAL GRADE SILICONE

### PRODUCT

Bostik Industrial Grade Silicone is a high performance, Ultra Violet (U.V.) resistant one component neutral cure silicone sealant.

### DESCRIPTION

Bostik Industrial Grade Silicone Sealant/Adhesive is a high performance premium quality neutral cure silicone sealant designed for sealing and adhering a wide variety of products and surfaces while also offering glazing and weather seal applications. It cures by absorption of atmospheric moisture to form a flexible and durable elastomeric sealant.

### RECOMMENDED USES

- Weatherseals between glass and aluminium
- High performance
- Backglazing between timber and glass
- Perimeter seals between aluminium window frames, brick and masonry
- Air seals in concrete panels
- General construction
- Electrical applications
- Marine work
- Industrial and maintenance applications
- As an Adhesive
- As a Multi-Purpose Sealant

### FEATURES & BENEFITS

- High Performance
- Excellent Multi-Purpose Sealant
- Permanently flexible
- Suitable for interior and exterior applications
- Unaffected by rain, snow, extreme temperature change and constant ultra violet exposure
- Waterproof
- Superior adhesion properties
- Low odour
- Factory and Plant Maintenance
- Fast Dry Time

### PACKAGING

Bostik Industrial Grade Silicone is available in 300ml cartridges packaged 20 in a carton.

### COVERAGE

Approximately 13 lineal metres per 300ml cartridge based on an average joint size of 5mm depth and 5mm width.

### MIXING

Ready to use straight from the cartridge.

### PERFORMANCE PROPERTIES

TEST	RESULT
Tooling time (at 20°C)	3 - 5 minutes
Tack free time (Per Fed. Spec TTS001543A)	6 minutes
Cure time (to 10mm depth @ 23°C & 50% RH)	5 - 7 days
Application range	10°C to 60°C
Temperature Performance range	- 62°C to 177°C
Hardness shore A (ASTM D-2440)	27
Tensile strength (ASM D-412)	260 psi (15 kgf/cm <sup>2</sup> )
Sag, slump (Per TT-S-001543A)	Nil
Specific gravity	1.02
Cure method (Chemical type)	Neutral
UV and ozone resistance	Excellent
Joint movement	± 25%
Water Potability	AS4020-1994 Approved

### APPLICATION INSTRUCTIONS

#### SURFACE PREPARATION

Surfaces to be sealed must be clean, dry and free of wax, grease or any loose or flaking paint. Clean off any oil or grease using **Bostik 9907** or **Bostik 5077 Cleaner**.

#### APPLICATION

- Use masking tape each side of joint to simplify clean up, to protect surfaces and to ensure a neat job. Complete all painting before applying.
- Insert a sealant support material such as polyurethane foam into deep joints or gaps to ensure sealant depth is no greater than 10mm.
- Cut nozzle at 45°C angle to desired thickness. Cut diaphragm on cartridge. Insert cartridge into caulking gun. Hold gun at 45°C angle with nozzle in contact with both sides of joint. Apply by pushing sealant ahead of nozzle, thus ensuring sealant is pushed firmly into place.
- Smooth off before skin forms (within 10 minutes). Remove excess sealant immediately with a cloth dampened with mineral turpentine. If used, remove masking tape immediately sealant tooling is complete. Sealant surface skins in 10 minutes and is touch dry in 30 minutes.
- Cured sealant can be removed by trimming with a sharp blade but avoid under cutting seal.
- After use, cured plug will form in cartridge nozzle, before Reusing remove plug and extrude sealant.
- Entire cartridge contents should be used within 12 months.

#### PRIMING

- On metal, steel and non-porous surfaces primer is not required.

- On porous or absorbent surfaces such as natural stone, granite etc, Bostik Primer must be used (consult Bostik Technical Department).

### PRECAUTION

- Not recommended for use in horizontal walkways exposed to high abrasion (pedestrian traffic), in totally confined areas or below grade or in expansion joints that will encounter continuous water immersion.
- Not to be used for structural glazing applications.
- Not paintable.
- Not to be used on extruded type polycarbonates or polyacrylates if they are under tension as stress cracking may occur.
- Not recommended for below water line applications.
- Do not apply to wet surfaces.
- Not recommended for direct contact with bituminous or pitch based adhesives or membranes as bleed through discolouration will occur.
- Not recommended for marble, granite or stone.
- Do not use in chlorinated water such as swimming pools, spas etc.

### TIP

For granite, marble or porous masonry and stone materials, Bostik Plumbseal is recommended. Plumbseal is also paintable.

### IT IS IMPORTANT TO NOTE

Oxime silicone sealant will tend to display a slight colour shift with age and exposure to ultraviolet light. Typically this colour shift, or yellowing, is not visually significant in the field. Also it is not necessarily confined to translucent coloured materials. This is a worldwide phenomenon affecting this cure type of silicone sealant.

Misapplication or contamination of an oxime sealant whilst curing will exacerbate the inherent condition. Specifically, chemical exposure to certain agents such as chlorinated cleaning solutions (ie, bleach), chemical solvents, and the fumes of some paints (enamel or solvent – containing types where not fully dried) may tend to magnify this yellowing change particularly where the sealant is still curing.

### PAINTABILITY

Not paintable.

### P.A.T.S (Pretested Adhesion To Substrate) Programme

Bostik offer a service in which a program has been established to eliminate potential field problems by pre-testing Bostik

adhesives with samples of building materials to which the adhesive will be applied.

This service is available on large projects where pre-application testing will aid in determining the proper surface preparation method to achieve optimum adhesion. Consult a Bostik representative for further information.

### HEALTH AND SAFETY

- On contact, uncured sealant causes irritation of skin and eyes, and may cause sensitization by skin contact.
- Use in well-ventilated area as Methyl Ethyl Ketoxime and Methanol release during cure.
- Gloves and protective goggles must be worn during application and use.
- Avoid contact with skin, eyes and avoid breathing in vapour.
- Wear protective gloves when mixing or using
- If poisoning occurs, contact a doctor or Poisons Information Centre. (Australia 131126)
- If swallowed, do not induce vomiting. Give a glass of water.
- If skin contact occurs, remove contaminated clothing and wash skin thoroughly for a minimum of 15 minutes and see a doctor.
- For more detailed information refer to Material Safety Data Sheet or [www.bostik.com.au](http://www.bostik.com.au)

### CLEAN-UP

Wipe off excess sealant immediately and clean up with mineral turpentine.

### STORAGE

Store inside where possible out of direct sunlight and heat. Store below 25°C. Shelf life is 18 months in unopened container when stored below 25°C.

### FIRE

Bostik Industrial Grade Silicone is non-flammable.

### BOSTIK INDUSTRIAL GRADE SILICONE

ITEM NO.	STOCK SIZE
267716	300 gms Black Cartridges
266434	300 gms Clear Cartridges
269131	300 gms White Cartridges
269158	300 gms Grey Cartridges

*The representations and recommendations regarding the products are based on tests which we believe to be reliable. However, no guarantee of their accuracy can be made because of the great range of field conditions and variations encountered in raw materials, manufacturing equipment and methods. Thus, the products are sold with a limited warranty only, and on the condition that purchasers will make their own tests to determine the suitability of the product for their particular purposes. Under no circumstances will Bostik Australia Pty Ltd be liable to anyone except for replacement of the products or refund of the purchase price.*

**ALL SALES ARE EXPRESSLY LIMITED TO THE TERMS AND CONDITIONS OF SALE OF BOSTIK AUSTRALIA PTY LTD**



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