



# Bostik

## BOSCOSIL 616

NEUTRAL CURE SILICONE SEALANT

### KEY FEATURES

- Outstanding adhesion
- Non Sag
- Odourless
- Low shrinkage

### DESCRIPTION

Boscasil 616 is premium, neutral cure construction silicone sealant. It cures by absorption of atmospheric moisture to form a flexible and durable elastomeric sealant.

Boscasil 616 is for use in metal fabrication, metal roofing, guttering, bonding and weather sealing, wall cladding and etc.

### RECOMMENDED USES

- Weatherseal between glass and aluminium
- Wood
- Perimeter seal between aluminium window frames and brick/masonry

### SURFACE PREPARATION

Always ensure that the surface to be sealed are dry and free from oil, dirt and grease. For porous surface, abrade the surface to remove loose particles and surface contaminants.

### APPLICATION INSTRUCTION

#### Joint Design

The sealant must be capable of withstanding the expected joint movement. The dynamic movement capability of Boscasil 616 is  $\pm 25\%$ . The joint design must avoid three sided adhesion. The sealant depth for weatherseal is normally half of the joint width. The minimum acceptable joint depth is 6mm. Therefore, if the required joint width is 6mm, the depth should be 6mm as well.

#### Back up Material

Use a closed cell PE backer rod, 20% larger than the joint width to control the depth of the joint.

#### Compatibility with adjacent substrates

Silicones are not always compatible with plasticizer sealant, such as butyls. Backing rods and glazing tapes that contain bitumen or other agents are incompatible

### PERFORMANCE PROPERTIES

Colour	Translucent, White, Grey, Black and other special colours
Form	Thixotrope flexible compound
Specific Gravity (20oC)	1.03 $\pm$ 0.01
Tack Free Time at 23oC $\pm$ 2oC	Approx. 20 minutes
Sag or Slump	Nil
Tooling Time	10 minutes
Shore A Hardness	20 to 30 (JIS A)
Elongation	> 300% (JIS K6301)
Tear Strength	> 3N/mm <sup>2</sup> (ISO34, Method C)
Tensile Strength	> 16kgf/cm <sup>2</sup> (JIS K6301)
Joint Movement	$\pm$ 25%
Application Temperature	-10oC to +40oC
Service Temperature	-40oC to +200oC

with this silicone. The incompatible material may cause discoloration, poor adhesion, poor sealant cure or long term degradation of the sealant. Always carry out compatibility test where contact with potentially incompatible material occurs.

### PLACING

Insert a sealant support material such as PE backer rod into deep joints or gaps to ensure sealant depth is not greater than 15mm.

Cut Nozzle at 45o angle to desire thickness. Cut diaphragm on cartridge. Insert cartridge into caulking gun. Hold gun at 45o angle with nozzle 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 tapes immediately sealant tooling is completed. Cure 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 re-using remove plug and extrude sealant.

#### LIMITATION

Boscasil 616 is not paintable and NOT suitable for use in the following applications.

- As the sealant requires atmospheric humidity to cure, it will not cure in totally confined spaces where is not access to atmospheric humidity.
- Aquariums
- Adhering mirrors
- Structural glazing
- Underwater applications (eg. swimming pool)
- Below grade applications
- Stone (Stain test is recommended)
- Horizontal application on walkways

#### PACKAGING

300 ml per cartridge  
25 cartridges per carton

#### SHELF LIFE AND STORAGE

At least 12 months from date of manufacture in original unopened sausage if store in cool, dry place within the temperature range +5oC to +25oC, 50% relative humidity and out of direct sunlight.

#### HEALTH AND SAFETY

This product is not classified as Dangerous Good or Hazardous Substance according to ADG Code and work safe Australia respectively. The product however, should be used in accordance with good occupational, health and safety practices. May cause irritation if swallowed, moderately irritating to eyes. Repeated or prolonged skin contact may lead to irritation. High concentrations of vapor may irritate respiratory tract. Release methyl ethyl ketoxime (MEK) until fully cured.

Do not swallow and avoid contact with skin as this may cause sensitization. If contact with eyes occurs, wash eyes with copious quantities of water and consult a doctor if irritation persists. For more details, refer Material Safety Data Sheet.

#### LIMITED WARRANTY

The information and recommendations relating to the application and end-use of the product are given in good faith and based on tests which we believe to be reliable. However, no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship, whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advise offered. No guarantee of their accuracy can be made because of the great range of field conditions and variation encountered in raw materials, manufacturing equipment and methods. Thus, the products are sold with limited warranty only, and on condition that purchasers will make their own tests to determine the suitability of the product for their particular purposes. Under no circumstances will Bostik be liable to anyone except for replacement of the products or refund of the purchase price.

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