



TECHNICAL DATA SHEET

V60 ARCHITECTURAL GRADE SILICONE

Bostik V60 is a premium grade neutral cure glazing weatherproofing silicone sealant – Its superior adhesion to painted and anodized aluminium & and glass has made this silicone the market leader in the glass market for the last 25 years.

Bostik V60 is a high-performance architectural-grade Glazing silicone. One component, non-flowing, Neutral cure, High modulus sealant. It cures by absorption of atmospheric moisture to form a flexible and durable elastomeric sealant.

FEATURES


- The thixotropic nature of this product ensures that it will not slump in typical construction joints
- Excellent U.V. Stability
- Long-Life Reliability
- Bostik V60 has excellent natural aging stability. It will maintain its elastomeric joint sealant properties permanently, even under harsh conditions and temperature extremes.

USES & APPLICATIONS

- Two-sided structural glazing. Colours only onto the aluminium substrate
- Structurally glazed systems
- Fin Glazing
- Sealing of Laminated and reflective glass
- General glazing applications
- Sealing of mirrors and splashback, excluding, vinyl-backed
- Toughened Glass Assemblies
- Weather Sealing in curtain walls and building facades
- Weather Sealing of composite metal panels
- Drinking Water – tank manufacturing

NFK Glazing
& Industrial Supplies


www.nfk.com.au

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 sales@nfk.com.au

 42 Tacoma Circuit,
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 08 9455 3866

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CLASSIFICATIONS/STANDARDS

Meets the requirements of Australian Standard AS 4020-1994.

PRODUCT CHARACTERISTICS


Colour	Translucent, White, Grey, Black, Silver & Matt Black
Tack Free Time	30 Minutes
Skin Time	8 Minutes
Tooling Time	8 Minutes
Slag or Slump	Nil
Coverage	Approximately 16 lineal metres per 300ml cartridge based on an average joint size of 6mm depth and 3mm width


TYPICAL PERFORMANCE DATA (approx.)

Shore "A" hardness	22
100% Modulus	0.5 MPa
Tensile Strength	1.5 MPa
Elongation	500%
Peel Strength after UV through Glass	89N/25mm
Dynamic Movement Capacity	±35%
Accelerated Aging and Weathering (ASTM C792)	Excellent

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Application temperature*	-10°C to 40°C
Service temperature	-50 to 200°C

* Application of the sealant at -10°C is permissible provided the surface to receive the silicone is dry and free of frost. The maximum service temperature listed is for transient temperature; the silicone sealant will deteriorate if subjected to these temperatures on a continuous basis.

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

Surfaces to be sealed must be clean, dry and free of wax, grease, cutting oils or any loose or flaking materials.

Use the two-wipe process for impervious substrates. Ensure the clothes are clean and changed frequently, and use a suitable cleaner/solvent such as IPA or 100% White Spirits.

APPLICATION

When extruding the sealant cut the nozzle to the desired width, cut the tip off the cartridge, and apply the sealant firmly to ensure good contact between the sealant and the substrate.

Before the sealant has skinned, tool it off to ensure a good finish, and to improve the wetting out of the sealant to the substrate.

Clean / wipe off excess sealant with a clean cloth or polyethylene scraper. Masking tape can be used. (Masking tape must be removed before skin-over starts).

JOINT DESIGN

The sealant must be capable of withstanding the expected joint movement. To calculate the joint width, establish the expected movement (expansion, contraction and shear movement) that the joint is required to withstand. The joint movement capability of Bostik V60 is $\pm 35\%$.


The joint design must avoid three-sided adhesion. The recommended sealant depth-to-width ratio for a weather seal is normally half the joint width. The minimum recommended joint depth is 6mm and the maximum is 15mm, ideally if the required joint width is 6mm the depth is also 6mm. There is a separate formula for structural glazing. (Please contact our sales office for details).

(No warranty will be given for Bostik V60, on structural glazing and other applications unless Bostik has reviewed all detailed drawings of the project and a signed copy of the joint design and substrate testing has been approved by Bostik before commencing any projects.)

V60 is recommended to be used only for 2-sided structural glazing including Fin glazing, refer to Bostik for 4 sided structural scenarios.

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BACK UP MATERIAL

Use a closed-cell polyethylene-backing rod, 25% larger than the joint width, to control the depth of the joint.

COMPATIBILITY WITH ADJACENT SUBSTRATES

Silicones are not always compatible with plasticized sealants, such as butyls.

Also some backing rods and glazing tapes contain bitumen or other agents that are incompatible with the silicone.

The incompatibility may cause discolouration, poor sealant cure or long-term degradation of the sealant. Always carry out compatibility tests where contact with potentially incompatible materials occurs. (Bostik offers this service via our lab facilities for projects.)

COVERAGE

Approximately 16 lineal metres per 300ml cartridge based on an average joint size of 6mm depth and 3mm width.

CURING TIME

Bostik V60 cures by absorbing atmospheric moisture it will cure 2-3mm in the first 24 hours and to a depth of 7mm in 7 days. Depending on the joint design it may take between 14-21 days before the silicone joint has fully cured. (Subject to temperature and atmospheric moisture) Lower atmospheric moisture reduces the curing rate.

LIMITATIONS

BOSTIK V60 is 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 it does not have access to atmospheric humidity.
- Aquariums and Under Water Applications on concrete or plastic materials etc. (including swimming pools)
- Note. This product is suitable for some under water non porous substrates applications where the sealant is in contact with water for extended periods eg metal tanks. (Please contact Bostik to confirm your design details before commencing such an application)
- Some stones (Use Bostik 5CLM - we recommend the completion of a stain testing program before using sealant on stone)
- Below Grade Applications
- Horizontal walkways
- Do not clean or treat the sealant with materials, cleaning agents or solvents, that may affect or discolour the sealant, particularly during product curing
- Polycarbonate sheeting
- The sealant may discolour copper and brass

- This product is neither tested nor can be used for medical or pharmaceutical use
- Where building materials may bleed oil, plasticizers or solvents, some vulcanized rubbers and tapes.
- Surfaces subject to corrosion/oxidisation -eg mill aluminium.
- This silicone is not paintable.

If there is a requirement to paint the sealant, use Bostik MS or PU sealant or Bostik Fill-A-Gap acrylic sealant products. Refer to the Technical Data Sheet of the product for the appropriate application and follow both the sealant and paint manufacturer painting instructions carefully, when painting these sealants.

STORAGE & SHELF LIFE

Always store the sealant in a cool dry place. The ideal storage temperature is not more than 25°C. Prolonged storage at high temperatures may affect shelf life and ultimate performance. The shelf life of Bostik V60 is 12 months from the date of manufacture when stored below 23°C and below 50% relative humidity.

HEALTH & SAFETY

Full product safety information required for safe use is not included in this datasheet. Before handling, read the separate Safety Data Sheet (SDS) and packaging for safe use. Always read the Technical Data Sheet and Safety Data Sheet (SDS) before opening or using this product.

In case of product emergency refer to product labelling or SDS and contact phone numbers. A copy of the product SDS is available from Bostik or its distributors.

FIRST AID

If accidentally swallowed or it gets into someone's eyes, contact a Doctor or Poisons Information Centre (Phone Australia 131 126; New Zealand 0800 764 766)

SEE THE MATERIAL SAFETY DATA SHEET FOR ADDITIONAL INFORMATION.

EMERGENCY INFORMATION: 1800 033 111 (ALL HOURS)


Important Notice for Users

Suggestions for use should not be taken as an inducement to infringe any particular patent.

*Bostik V60 is a registered trademark of Bostik Australia. (Structural testing for Bostik V60 carried out by Bostik & independent company).

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