

V-60

High Performance Glazing / Weatherproofing Silicone

Technical Data Sheet

Product Information**Description**

Bostik V-60 is a one component, non flowing, Neutral cure, High modulus silicone sealant. It cures by absorption of atmospheric moisture to form a flexible and durable elastomeric sealant.

Special Features

Bostik V-60 is a premium grade neutral cure glazing weatherproofing silicone sealant. Its superior adhesion to painted and anodised aluminium & glass has made this silicone the market leader in the glass market for the last 15 years. The thixotropic nature of this product ensures that it will not slump in typical construction joints. Meets the requirements of Australian Standard AS 4020-1994
Excellent U.V Stability

Typical Uses

- Two sided structural glazing. (Colours only on to aluminium substrate)
- Structurally glazed systems. (Subject to Bostik approval & review of design first)
- Fin Glazing. (all V-60 colours including trans)
- Sealing of Laminated & reflective glass
- General Glazing applications.
- Sealing of mirrors & splashbacks.
- Toughened Glass Assemblies.
- Weather Sealing in curtain walls and building facades.
- Weather Sealing of composite metal panels.
- Drinking Water - tank manufacturing, meets the requirements of Australian Standard AS 4020-1994
(Substrate testing must be carried out first before use, Bostik offers this service via our labs.)

Application Standards

Bostik V-60 Silicone Glazing Sealant meets or exceeds the requirements of the following specification for a one – part sealant.

- **AS-1288-2006**
- **ASTM C1184**, Type S, Use G and O.
- **C920: Type S** Grade NS, Class 25, Use NT, A, G, O.
- **GB – 16776**

One Part System

Being a one-part sealant, **Bostik V-60** offers the confidence of consistent even cure, and can be applied out of a standard cartridge gun.

Long Life Reliability

Bostik V-60 has excellent natural ageing stability. It will maintain its elastomeric joint sealant properties permanently, even under harsh conditions and temperature extremes.



Characteristics

System Properties

Property	Mean Result Achieved	Test Method
Skin Time	8 Minutes	BS 5889
Tack Free Time	30 Minutes	ASTM C679
Tooling Time	8 Minutes	ASTM C679
Sag or Slump	Nil	BS5889

Cured Properties

Property	Mean Result Achieved	Test Method
Shore A Hardness	22	ASTM C 661
Modulus at 100% Elongation	0.5 MPa	ASTM D 412
Tensile Strength	1.5 MPa	ASTM D 412
Elongation at Rupture	500%	ASTM D 412
Peel Strength after UV through Glass	89N/25mm	BS5889
Dynamic Movement Capacity	±35	ASTM C 920
Accelerated Aging and Weathering	Excellent	ASTM C 792

Temperature

	Minimum	Maximum
Application Temperature	-10°C	+40°C
Service Temperature	-50°C	+205°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.

Packaging & Colours

300gm - polyethylene cartridge.

309470 – Translucent.

309480 – White.

315670 – Dark Grey

333182 – Light Grey

661510 – Silver.

314690 – Black

329045 – Matt Black.

Sealant Application

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 V-60** is ± 35



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The Data Sheet on Joint Design contains the formula for calculating the required joint width from the expected joint movement and dynamic movement capability of the sealant.

The joint design must avoid three-sided adhesion.

The recommended sealant depth to width ration 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 give for Bostik V-60, on structural glazing and other applications unless Bostik has review all detail drawing of the project, and a signed copy of the joint design and substrate testing has been approved by Bostik before commencing any projects.)

V-60 is recommend to be used only for 2 sided structural glazing including Fin glazing, refer to Bostik for 4 sided structural.

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 plasticised 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 labs facilities for projects)

Application – Cleaning & Appling

Always ensure that the surfaces to be sealed are dry and free from oil, dirt and grease.

Use the two-wipe process for impervious substrates.

Ensure the cloths are clean and changed frequently, and use a suitable cleaner/solvent such as Z Bond R-40, IPA or 100% White Spirits.

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 of excess sealant with clean cloth or polyethylene scraper. Masking tape can be used. (Masking tape must be removed before skin over starts).

To achieve satisfactory adhesion a primer may be required for some substrates. (Consult Bostik or your distributor for more information).

Curing

Bostik V-60 cures by absorbing atmospheric moisture it will cure 2-3mm in the first 24hrs and to a depth of 7mm in 7 days.

Depending on the joint design it may take between 14-21days before the silicone joint has fully cured. (Subject to temperature & atmospheric moisture) lower the moisture reduces the curing times. (Bostik has a 2 part structural silicone for faster curing).

Bostik Co-operative Test Program

Effective sealant systems require the sealant to adhere to the substrates, and work in the joint without cohesive failure.

The intention of the program is to eliminate potential problems by pre-testing sealants with actual samples of the building materials to be used.



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This test will provide detailed information about optimum surface preparation techniques, including recommendations for cleaning substrates, (cleaners / solvents), and primers if required.

We will also review the shop drawings - proposed joint designs for potential failures, such as three-sided adhesion, and requirements for wind or dead load systems. For projects that incorporate stone substrates, we test (Stain Test) because of the variability of stone's, in terms of porosity and texture, we carry out these tests before commencement of each project.
(Test samples for stain test should be the same as will be used on the building).

To commence a test program contact your local Bostik office

Because of the importance of Surface Preparation, Sealant Application and Joint Design Bostik provide specific Data Sheets on these topics. These data sheets are available free of charge, and we strongly recommend that you consult these sheets before commencing application of the sealant.

Storage and Shelf Life

Always store the sealant in a cool dry place. 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 V-60** is 12 months from the date of manufacture when stored below 25°C and below 50% relative humidity.

Limitations

BOSTIK V-60 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
- Under Water Applications on concrete, some plastic materials ect (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 stone's (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.
- This product is neither tested nor can be used for medical or pharmaceutical use.
- Surfaces in contact with food.
- Where painting of the sealant is required.
- Where building materials may bleed oil, plasticisers or solvents, some vulcanized rubbers & tapes.
- Surfaces subject to corrosion / oxidisation -eg mill aluminium.

This silicone is not paintable.



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2.2 Health and Safety

Full product safety information required for safe use is not included in this data sheet. Before handling, read the separate Material Safety Data Sheet (MSDS) and packaging for safe use.

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

Important Notice for Users

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

*Bostik V-60 is a registered trademark of Bostik Australia.

(Structural testing for Bostik V-60 carried out by Bostik & independent company).

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.

**ALL SALES ARE EXPRESSLY LIMITED TO THE TERMS AND CONDITIONS OF SALE OF
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FOR FURTHER INFORMATION

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