



Technical Data Sheet

V2 High Performance Glazing Silicone Acetic Cure

Description

Bostik V-2 is a one component, Acetic cure, high modulus silicone sealant. It cures by absorption of atmospheric moisture to form a flexible and durable elastomeric sealant.

Bostik V-2 silicone sealant meets the currently accepted engineering standards for glazing.

Classifications/Standards

Bostik V-2 Structural Silicone Glazing Sealant meets or exceeds the requirements of the following specification for a one – part sealant.

AS-1288-2006

Features

This high strength silicone sealant has very good adhesion properties, to a broad range of building substrates. *(Substrate testing must always be carried out first).

These features make this product a very good reliable structural adhesive sealant for the Construction industries.

The thixotropic nature of this product ensures that it will not slump in typical construction joints.

Excellent U.V Stability

Recommended Uses

- Frameless shower screens.
- Structural glazing (Glass to Glass applications).
- Fin Glazing.
- Butt Glazing.
- General Glazing applications.
- Toughened Glass Assemblies.
- Aquariums.
- Fibreglass applications.



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 cloths are clean and changed frequently, and use a suitable cleaner/solvent such as ZBond® Bostik R-40 (silicone) surface cleaner, IPA or 100% White Spirits.

To achieve satisfactory adhesion a primer may be required for some substrates. Consult Bostik for more information.

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 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).



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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 V2** is $\pm 25\%$.

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 sealant depth for a weather seal is normally half the joint width. The minimum acceptable joint depth is 6mm; therefore, if the required joint width is 6mm the depth is also 6mm.

No warranty will be given for Bostik V-2, on structural glazing and other applications unless Bostik has reviewed all detail drawings of the project, and a signed copy of the joint design and substrate testing has been approved by Bostik before commencing any projects.

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)

Coverage

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

Curing Time

Bostik V-2 cures by absorbing atmospheric moisture, it will skin over in 6 minutes and cure to a depth of 10mm in 4-7 days.

(Subject to temperature & atmospheric moisture) lower the moisture reduces the curing times. (Bostik has a 2 part structural silicone for faster curing)

Limitations

Bostik V-2 is **NOT** suitable for the following applications:-

- As the sealant requires atmospheric humidity to cure, it will not cure in totally confined spaces where there is an absence of these conditions.
- Adhering Mirrors
- Laminated Glass
- Reflective Glass
- Some under Water Applications on porous substrates. (including swimming pools)
- N.B. This product is suitable for some applications where the sealant is in contact with water for extended periods. Please contact Bostik Australia Pty. Ltd. to confirm your design details before commencing such an application.
- Below Grade Applications
- Concrete, Cement or Masonry
- All stone's (We recommend the completion of a stain testing program before using any sealant on stone)
- Soft metals, such as Galvanising, Zinalume®, Brass and Bronze and
- 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.
- Where painting of the sealant is required.
- Where building materials may bleed oil, plasticisers or solvents, some vulcanized rubbers & tapes.
- Surfaces subject to corrosion / oxidation -eg mill aluminium.

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



The Adhesive Company

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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.

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.

Properties

Property	Mean Result Achieved	Test Method
Skin Time	6 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	23	ASTM C 661
Modulus at 100% Elongation	0.45 MPa	ASTM D 412
Tensile Strength	1.90 MPa	ASTM D 412
Elongation at Rupture	500%	ASTM D 412
Peel Strength after UV through Glass	62N/25mm	BS5889
Dynamic Movement Capacity	± 25%	ASTM C 920
Accelerated Aging and Weathering	Excellent	ASTM C 792

Temperature

	Minimum	Maximum
Application Temperature	+5°C	+40°C
Service Temperature	-50°C	+190°C

Application of the sealant at +5°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

Storage & Shelf Life

Store under cover in a cool dry place, away from direct sunlight. 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 V2** is up to 12 months from the date of manufacture when stored below 25°C and below 50% relative humidity

Health & Safety

Please refer to the Material Safety Data Sheet which is available on request.



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Packaging

300grm - polyethylene cartridge

Product Details

Item Number	Size	Colour	Pack Quantity
309440	300grm	Blackt	15
309450	300grm	Translucent	15
309460	300grm	White	15

Important Notice for Users

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

*Bostik V2 is a registered trademark of Bostik Australia.



The information in this Technical Data Sheet is intended for the assistance of purchasers and is of a general nature. It reflects the extent of our knowledge and experience of our products and is based on tests which we believe to be reliable. However, no guarantee of accuracy can be given due to the wide range of surfaces, environmental and field conditions and variations encountered in raw materials, manufacturing equipment and methods at the place where the work is performed. Some of these will be beyond our knowledge or control. We recommend purchasers carry out their own tests to determine the suitability of the product for their particular purposes.

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SAI GLOBAL
Quality endorsed ISO9001 (Thomastown site)
TS16949 (Automotive).



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