

360 High Performance Glazing Silicone Sealant

BOSS, 360 High Performance Glazing Silicone Sealant is a high quality, low odour, one-part neutral curing sealant that offers excellent adhesion, compatibility with a wide variety of substrates, and excellent weatherability. **BOSS, 360** is ideally suited for general and structural glazing, sealing and weatherproofing applications. **BOSS, 360** has excellent adhesion to glass, glazed surfaces, anodized aluminum, concrete, cement, wood and many plastics.

Typical Uses

Sealing of laminated and reflective glass; two sided structural glazing; curtain wall glazing fin glazing; general weather sealing.

Colours**Standard colours are Translucent; White; Grey; Silver; Black**

Almost any solid colour can be manufactured. Minimum batch orders would be required, please contact our Accumetric LLC representative for more information on your requirements.

TECHNICAL & PERFORMANCE DATA**Uncured**

Specific Gravity		1.03
Sag/Slump	ASTM C 679	nil
Skin Time (Min)	BS5889	8-10
Tooling Time (Min)	ASTM C 679	8-10
Tack Free Time (Min)	ASTM C 679	45
Application Temp (Min - Max)		-10°C - +40°C

Cured

Elongation (%)	ASTM D 412	500
Modulus @ 100% Elongation (Mpa)	ASTM D 412	0.5
Durometer, Shore A, points	ASTM C 661	22
Ultimate Tensile Strength (Mpa)	ASTM D 412	1.5
Dynamic Movement Capability (%)	ASTM C 920	+/- 35
Accelerated Ageing and Weathering	ASTM C 792	Excellent
Peel Strength/UV through Glass	ASTM C 792	89N/25mm
Service Temp (Min - Max)		-50°C - +220°C

*Information on this data sheet is subject to change without notice and should not be used for writing specifications. For additional information on specific applications, contact your Accumetric LLC representative.



PRODUCT INFORMATION

360 High Performance Glazing Silicone Sealant

Features

- Excellent adhesion to most common building materials
- Low Odor
- Non-Corrosive to metal
- Permanently Flexible
- Weatherproofs/Waterproofs
- UV Resistant

Special Features

BOSS® 360 High Performance Glazing Silicone Sealant is a premium grade silicone sealant; it has superior adhesion to Painted, Anodized Aluminium and Glass. **BOSS® 360** will maintain its elastomeric properties permanently.

Application

All surfaces should be clean and free of dirt, dust, debris, any oils and grease prior to application.

1. Cut nozzle of cartridge at 45° angle
2. Gun cartridge to extrude **BOSS® 360** sealant along the joint line
3. Tool off excess sealant to ensure sealant is placed firmly on the surface
 - Tooling must be completed within 8-10 minutes of application.
 - Complete any necessary painting prior to sealant application.

Limitations

- Not for use in areas of constant underwater immersion (This Product is suitable for applications where the sealant is in constant contact with water, please contact your Accumetric LLC agent to discuss your design application.)
- Not for traffic areas or areas subject to abrasion
- Not for bathrooms where mildew resistance is required
- Not paintable

Packaging

BOSS® 360 is packaged in 300ml plastic cartridges for use with any standard caulking gun; 24 cartridges/carton.

Storage and Shelf Life

When stored in the original unopened container at or below 32°C **BOSS® 360** has a shelf life of 12 months from date of shipment. Containers should always be kept sealed when not in use.

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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 dynamic movement capability of **BOSS® 360** is $\pm 25\%$. The Data Sheet on Joint Design contains the formula for calculating the required joint width from the expected joint movement and the dynamic movement capability of the sealant. 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.

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. In addition, 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. Acceptable for use as a mirror adhesive or with metal coated glass in the majority of applications¹

Curing

BOSS® 360 cures by absorbing atmospheric moisture, it will skin over in 8-10 minutes and cure to a depth of 9 mm in 7 days.

Health and Safety

BOSS® 360 not classified as Dangerous Goods but is classified as a Hazardous Substance according to the ADG Code and Worksafe Australia respectively. The product however, should be used in accordance with good occupational, health and safety practices.

Do not swallow and avoid contact with the skin as this may cause sensitisation. If contact with the eyes occurs, wash eyes with copious quantities of water and consult a doctor if irritation persists.

BOSS[®]**PRODUCT INFORMATION****360 High Performance Glazing Silicone Sealant****Users Please Read**

The information and data contained herein is believed to be accurate and reliable; however, it is the user's responsibility to determine suitability of use. Since the supplier cannot know all the uses, or the conditions of use to which these products may be exposed, no warranties concerning the fitness or suitability for a particular use or purpose are made.

It is the user's responsibility to thoroughly test any proposed use of our products and independently conclude satisfactory performance in the application.

¹ Always test prior to use to determine suitability on metal coated glass and mirrors.

Likewise, if the application, product specifications or manner in which our products are used requires government approval or clearance, it is the sole responsibility of the user to obtain such authorization.

The supplier warrants only that its products will meet its specifications. There is no warranty of merchantability or fitness for use, nor any other express or implied warranty. The users exclusive remedy and the suppliers sole liability is limited to refund of the purchase price or replacement of any product shown to be otherwise than as warranted. The supplier will not be liable for incidental or consequential damages of any kind.

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