



Technical Data Sheet

DOWSIL™ 688 Glazing and Cladding Sealant

One-part neutral cure silicone sealant

Features & Benefits

- Adheres to a wide range of building materials and finishes
- Neutral cure; will not corrode galvanized/zinc-coated steel or attack concrete
- Excellent resistance to weathering, ultra-violet radiation, vibration, moisture, ozone, temperature extremes, airborne pollutants, cleaning detergents and many solvents
- Long life reliability
- Meets International Standards such as CNS 8903, BS 5889, BS EN ISO11600 20LM
- Strong elastic seal capable of withstanding movements up to $\pm 25\%$ of original joint width
- Non-slumping; can be used in vertical and overhead joints
- Easy to use – one part, no mixing required
- Can be applied in any season
- Good weatherability – it is virtually unaffected by sunlight, rain, snow, ozone or temperature extremes
- Easy to use
- Bonds to most common construction materials without use of primer
- Excellent recovery from extension and compression
- Ease of application – ready to use as supplied

Applications

DOWSIL™ 688 Glazing and Cladding Sealant is a one-part neutral cure silicone sealant designed for a wide range of glazing, weather sealing and professional caulking applications. It will bond to form a strong weatherproof seal on most common building materials.

Typical Properties

Specification Writers: These values are not intended for use in preparing specifications.

Test ¹	Property	Unit	Result
As Supplied – tested at 25°C, 50% relative humidity			
	Flow, Sag or Slump		Nil
	Approximate Working Time ²	Minutes	10

1. ASTM: American Society for Testing and Materials
2. Sealant cure rate and working time may vary with temperature and humidity.

Typical Properties (Cont.)

Test ¹	Property	Unit	Result
	Tack Free Time ² :		
	Translucent	Minutes	30
	Colors	Minutes	30
	Specific Gravity:		
	Translucent		1.03
	Colors		1.40
	As Cured – After 7 days at 25°C, 50% relative humidity		
	Durometer Hardness, Shore A:		
	Translucent	Points	27
	Colors	Points	32
ASTM D412	Ultimate Tensile Strength	MPa	1.10
ASTM D412	Ultimate Elongation at Break	%	400
	Temperature Stability	°C	-20 to 120
	Movement Capability		± 25

Description

DOWSIL 688 Glazing and Cladding Sealant is one-part neutral cure, construction grade sealant that easily extrudes in any weather. It quickly cures at room temperature by reaction with moisture in the air to form a durable, flexible silicone rubber seal.

It has excellent unprimed-adhesion to most construction materials.

Specifications

Meets the requirements of: CNS 8903 A 2136 SR-1-9030-A-N, BS 5889 Type B, BS EN ISO11600 20LM.



SGBP 2014-394

How To Use

Please consult the application manual for detailed information on state-of-art application methods and joint design. Please contact your local sales office for specific advice.

Preparation

Clean all joints and glazing pockets, removing all foreign matter and contaminants such as grease, oil, dust, water, frost, surface dirt, old sealants, or glazing compounds and protective coatings.

Application Method

Install backing material or joint filler, setting blocks, spacer shims, and tapes. Areas adjacent to joints may be masked to ensure neat sealant lines. Primer is generally not required on non-porous surfaces. It is recommended that a field test be carried out prior to application. To confirm optimum adhesion on either a porous or non-porous surface, adhesion testing should always be carried out prior to the commencement of any project. Please contact your local sales office for specific advice.

Apply DOWSIL 688 Glazing and Cladding Sealant in a continuous operation using a positive pressure. Tool the sealant with light pressure to spread the sealant against the backing material and joint surfaces before a skin forms. The applied sealant should be tooled and masking tape removed before the sealant has formed a cured skin.

Handling Precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW WEBSITE AT WWW.CONSUMER.DOW.COM, OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

Usable Life And Storage

Store in original unopened containers in a dry place. Storage temperature should not exceed 30°C. DOWSIL 688 Glazing and Cladding Sealant has a shelf life of 12 months from date of manufacturing as noted with "use by" date printed on the packaging.

Packaging Information

This product is supplied in 300 ml disposable plastic cartridges or 600 ml aluminum foil sausage.

Limitations

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

DOWSIL 688 Glazing and Cladding Sealant is not recommended for use in continuous water immersion, nor for below ground or other joints where excessive abrasion and physical abuse are encountered.

UNRESTRICTED – May be shared with anyone

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Limitations (Cont.)

It should not be applied:

- To build materials that bleed oils, plasticizers, or solvents – materials such as impregnated wood, oil-based caulks and certain green or partially vulcanized rubber gaskets and tapes.
- To copper or copper containing building materials.
- To surfaces in direct contact with food. This sealant has not been tested to determine its status under Federal Food and Drug Administration regulations.
- To uncured sealant other than DOWSIL 688 Glazing and Cladding Sealant. Sealant with different cure chemistry, such as one part structural sealants, should be fully cured before DOWSIL 688 Glazing and Cladding Sealant is applied.

Health And Environmental Information

To support customers in their product safety needs, Dow has an extensive Product Stewardship organization and a team of product safety and regulatory compliance specialists available in each area.

For further information, please see our website, www.consumer.dow.com or consult your local Dow representative.

<http://www.consumer.dow.com>

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

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Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted.

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