



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	Property	Unit	Result
As Supplied – Tested at 25°C, 50% Relative Humidity			
	Flow, Sag or Slump		Nil
	Approximate Working Time ¹	Minutes	10

1. Sealant cure rate and working time may vary with temperature and humidity.

Typical Properties (Cont.)

Test ²	Property	Unit	Result
	Tack Free Time		
	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

2. ASTM: American Society for Testing and Materials.

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.



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.

How to Use (Cont.)

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 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.

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, dow.com or consult your local Dow representative.

Disposal Considerations

Dispose in accordance with all local, state (provincial) and federal regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

It is the user's responsibility to verify that treatment and disposal procedures comply with local, state (provincial) and federal regulations. Contact your Dow Technical Representative for more information.

Product Stewardship

Dow has a fundamental concern for all who make, distribute, and use its products, and for the environment in which we live. This concern is the basis for our product stewardship philosophy by which we assess the safety, health, and environmental information on our products and then take appropriate steps to protect employee and public health and our environment. The success of our product stewardship program rests with each and every individual involved with Dow products - from the initial concept and research, to manufacture, use, sale, disposal, and recycle of each product.

Customer Notice

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. Dow personnel are available to answer your questions and to provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to use of Dow products. Current safety data sheets are available from Dow.

dow.com

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