



DOWSIL™ 688 GLAZING AND CLADDING SEALANT



- One-part neutral cure silicone sealant
- 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
- Strong elastic seal capable of withstanding movements up to $\pm 25\%$ of the original joint width
- Non-slumping; can be used in vertical and overhead joints
- Ease of application – ready to use as supplied
- Can be applied in any season
- Bonds to most common construction materials without the use of primer
- Excellent recovery from extension and compression

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.

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. Sealants with different cure chemistry, such as one-part structural sealants, should be fully cured before DOWSIL™ 688 Glazing and Cladding Sealant is applied.

APPROVALS/SPECIFICATIONS

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



SGBP 2023-437



TYPICAL PHYSICAL PROPERTIES & PERFORMANCE DATA

Test	Property	Value
	As Supplied – Tested at 25°C, 50% Relative Humidity	
	Flow, Sag or Slump	Nil
	Approximate Working Time ¹	10 Minutes
	Tack Free Time	30 Minutes
	Specific Gravity	
	<ul style="list-style-type: none"> • Translucent • Colors 	1.03 1.40
	Durometer Hardness, Shore A	
	<ul style="list-style-type: none"> • Translucent • Colours 	27 Points 32 Points
ASTM D412	Ultimate Tensile Strength	1.10MPa
ASTM D412	Ultimate Elongation at Break	400%
ASTM C 1135	Temperature Stability	-20 to 120°C
	Movement Capability	± 25
ASTM C 1248	Staining (Granite, Marble, Limestone, Brick and Concrete)	None
As Cured After 21 Days at 25°C (77°F) and 50% RH Followed by 10,000 Hours in a QUV Weatherometer, ASTM G 53		
ASTM C 1135	Tension Adhesion Strength	
	At 25% Extension	35 (0.241) psi (MPa)
	At 50% Extension	50 (0.345) psi (MPa)

These values are not intended for use in preparing specifications

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

DOWSIL™ 688 Glazing and Cladding Sealant is a 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.



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 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.

GENERAL INFORMATION

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 aluminium foil sausage.

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.