Technical Data Sheet

DOWSIL™ 480 Glass Sealant

FEATURES & BENEFITS

- One-component adhesive/sealant
- 100% silicone sealant
- Cures at room temperature when exposed to moisture in the air
- Acetoxy cure system
- Non-sag, paste consistency
- Easy to use / ease of application compared to non-silicone materials
- Cures to a tough, flexible rubber
- Good adhesion to glass
- Stable and flexible from -40°C to +150°C

General purpose 100% silicone adhesive/sealant

APPLICATIONS

- General industrial sealing and bonding applications.
- Glaze and waterproof for Windows •Doors •Shopfronts •Internal fixture and fittings• Skylights

TYPICAL PROPERTIES

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

Property	Unit	Result
<As supplied>		
Appearance		Non-slum paste
Colors		Clear, Black, White
Extrusion rate*1	g/min	369
Tack-free time	min	11
In depth cure at 25°C/50%RH for 1day	mm	3.2
<As cured 7days at 25°C/50%RH>		
Density	g/cm^3	1.02
Durometer hardness, Shore A		34
Tensile strength	MPa	2.1
Elongation at breake	%	450

*1: Extrusion rate: 3.2mm orifice at 0.62MPa.

HOW TO USE

Substrate preparation

All surfaces must be clean and dry degrease and wash off any contaminants that could impair adhesion. Suitable solvents include isopropyl alcohol, acetone or methyl ethyl ketone.

A primer may be needed for optimum adhesion to some substrates based on testing conducted by the end user. Information on DOWSIL™ primers is available on request from Dow.

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

Product should be stored at or below 32°C (90°F) in original, unopened containers.

As DOWSIL™ 480 Glass Sealant cures by reaction with moisture in air, keep the container tightly sealed when not in use. A plug of used material may form in the tip of a tube or cartridge during storage. This is easily removed and does not affect the remaining contents.

LIMITATIONS

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

DOWSIL 480 Glass Sealant is not recommended:

- Do not use for structural glazing.
- Not recommended for continuous water immersion applications.
- Not recommended for use with marble and similar highly porous stone finishes whose appearance may be affected by sealant.
- Not recommended for use on materials where the cure by-product (acetic acid vapor) may cause corrosion or discoloration or where the sealant may affect their appearance (e.g. galvanized iron, copper, brass, zinccoated steel and other metals; or concrete, cement, brick, limestone, marble and similar highly porous stone finishes).
- Not recommended for joints where movement exceeds ±15%.
- Not recommended for use in below-ground joints or trafficable joints where abrasion and physical abuse are encountered.
- Not recommended for use in the construction or sealing of aquariums.
- Cannot be painted, as paint will not adhere to sealant.
- Not recommended for use on plastic sheeting.
- Not for use on freshly painted surfaces (enamel or solvent-containing types).
- Should not be applied to materials that bleed plasticizers or solvents or release by-products that may inhibit cure, affect adhesion or discolor the sealant (e.g. bituminous-based adhesives and coatings).
- Do not clean or treat the sealant with materials, solvents or cleaning agents that may affect or discolor the sealant, particularly during sealant cure.
- Do not apply at temperatures below 4°C or when substrate surface temperatures exceed 50°C.
- Should not be used as an interior penetration fire stop sealing system.
- Should not be applied to surfaces in direct contact with food or drinking water. This sealant has not been tested to determine status under U.S. Food and Drug Administration regulations.
- Not recommended for direct contact on the reflective coatings of mirrors.
- Polyester powder coat paint exhibits a highly variable wax content on the surface. Ensure thorough solvent cleaning.
- Sealant cures by contact with moisture vapor in the air. Not recommended for use in closed or confined areas where sealant cure may be inhibited by lack of air.
- Do not use in the manufacture of insulated glass (IG) units.

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.

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.

Dow's sole warranty is that our products will meet the sales specifications in effect at the time of shipment.

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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