



Technical Data Sheet

DOWSIL™ Silicone Glazing Sealant

Professional quality sealant specifically formulated to meet glass shop glazing needs

Features & Benefits

- Cures to 100% silicone rubber
- Resistant to sunlight and weather extremes
- High strength, excellent adhesion
- Remains flexible, will not become brittle, crack, shrink or chalk
- Bonds to many common substrates
- Supplied in removable, reusable, resealable nozzle that saves time and sealant

Composition

- One-part, acetoxy-cure, RTV silicone

Applications

- General glazing applications, backlite replacement and skylight installations
- Repairing weatherstripping and gaskets
- Sealing most glass, plastics, metal, repainted surfaces, fiberglass, ceramics and aluminum substrates

Typical Properties

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

Property	Unit	Result
Tooling Time ¹	minutes	< 10
Tack-free Time ¹	minutes	10–15
Complete Set-up Time ¹ , 1/8"	hours	24
Cure System		Acetoxy
Application Temperature Range	°F (°C)	-20 to 122 (-29 to 50)
VOC Content ²	g/L	22
As Cured – After 7 Days		
Durometer Hardness Shore A	points	26
Tensile Strength	psi	251
Elongation	percent	470
Temperature Range (Continuous)	°F (°C)	-40 to 350 (-40 to 176)
Movement Capability	percent	±25

1. At 25°C (77°F) and 50% relative humidity
2. Based on South Coast Air Quality Management District of California. Maximum VOC is listed both inclusive and exclusive of water and exempt compounds.

Description

DOWSIL™ Silicone Glazing Sealant is a professional quality sealant specifically formulated to meet glass shop glazing needs. It forms a long-lasting, water-resistant seal with $\pm 25\%$ movement capability when properly applied. Its unique adhesion-promoted formulation ensures adhesion to many building substrates, and longer working time means a professional appearance for the finished job.

DOWSIL™ Silicone Glazing Sealant meets the requirements of:

- ASTM C920 Type S, Grade NS, Class 25, Use NT, G and A
- TT-S-001543A
- TT-S-00230C, Class A (COM-NBS)

How to Use

1. Refer to product packaging for use-by date.
2. Temperature. Apply sealant at temperatures between -20 and 122°F (-29 and 50°C) for best results.
3. Prepare Surface. Cut out and remove all old caulk for repair applications.
4. Clean, Two-Step. First, apply solvent to a lint-free cloth and vigorously wipe bonding surfaces to remove dirt and residues. Next, use a dry wipe to remove remaining solvent and residue for optimum cleaning. Repeat if necessary. Surfaces must be clean, dry, oil- and frost-free for best results. (Recommended solvents include isopropyl alcohol, toluene, xylene, naphtha or similar solvent.) Always wear gloves and follow safety precautions and directions on solvent container. DO NOT USE gasoline or kerosene.
5. Install. Install back-up spacing material for better filling, especially if width exceeds 1/2" to maximize bonding results. Open-cell polyethylene foam backer rod can be used.
6. Mask. Apply masking tape to areas adjacent to the joint to ensure straight bead lines and easy cleanup. Remove masking tape immediately after the bead is completed and before a skin forms.
7. Open Cartridge. Cut snub nose above threads, reattach and cut nozzle to desired size. Insert into a caulking gun.
8. Apply. Extrude sealant with a smooth, steady motion, and ensure complete fill of joint cavity before proceeding.
9. Tool. Tool the sealant immediately after application and before a skin forms. Remove masking immediately after tooling.
10. Replace Cartridge Cap. See "Usable Life and Storage" instructions.

Cleanup Instructions

1. Cleanup should start immediately after sealant has been applied/ tooled and masking tape removed.
2. While wearing solvent-resistant gloves, wipe off excess sealant from surfaces and tools with a solvent-moistened cloth within 10 minutes of application.
3. If excess sealant is completely cured, carefully cut or scrape away.
4. Avoid contact of uncured sealant with skin and clothing. If contact does occur, wipe with clean rags and wash with water.

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

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

Limitations

- Not for structural glazing.
- Not paintable.
- Not suited for prolonged submersion in water or below-grade applications.
- May not adhere to oily woods or be compatible with substrates made of methylmethacrylate, polycarbonate, polypropylene, polyethylene, and polytetrafluoroethylene.
- Not suitable for surfaces that might bleed oils, plasticizers or solvents, or porous surfaces such as cementlike materials, stone or surfaces prone to attack by weak acids.
- May not cure properly if used in spaces confined from atmospheric moisture.
- May cause corrosion on some brass, copper, zinc or zinc alloy-containing fixtures.
- Not for use where abrasion and physical abuse are encountered.
- This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

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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.

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