

Silicone Sealants

Dow Corning® InstantGlaze Window Assembly Sealant

FEATURES

- Instant green strength
- Exhibits silicone weather resistance
- Low VOC (VOC exempt in CA)
- Safe to handle – nonhazardous composition and by-products
- Neutral cure
- Adheres to most common window substrates
- Open time up to 15 minutes
- Pot life up to 24 hours
- Excellent clarity
- Service temperatures from -32 to 93°C (-25 to 200°F)
- Reduces silicone contamination and cleanup
- Easy to deglaze
- Can be used with standard XY glazing equipment and pumps

BENEFITS

- Instant green strength delivers improved productivity in window assembly
- Long open time, pot life and moderate application temperature (121°C [250°F]) offer a user-friendly application
- Unique physical properties minimize contamination of window components during assembly

COMPOSITION

- Moisture curing, 100 percent silicone, reactive hot-melt sealant

Reactive hot-melt silicone for automated backbedding applications

APPLICATIONS

Dow Corning® InstantGlaze Window Assembly Sealant is designed for use as a backbedding sealant in the assembly of windows and doors. It is used with high-speed XY glazing equipment to improve manufacturing productivity and window performance. It can be used on most common window materials (wood, PVC, aluminum, fiberglass) for standard and impact-resistant glazing. *Dow Corning* InstantGlaze Window Assembly Sealant is also compatible with most common insulating glass sealants.

TYPICAL PROPERTIES

Specification Writers: Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

| Method | Test | Unit | Result |
|-------------------------|--|---------|------------------------|
| CTM ¹ 0719 | Viscosity at 120°C (248°F) | poise | 2100 |
| CTM 0086 | Nonvolatile Content | percent | >98.5 |
| CTM 0243 | Open Time | minutes | 15 |
| CTM 0243 | Green Strength at 15 minutes | psi | 18 |
| CTM 0243 | Green Strength at 60 minutes | psi | 28 |
| | Cure Time | days | 2 |
| ASTM C 661 | Durometer – Shore A | points | 60 |
| ASTM ² D 412 | Tensile Strength | psi | 350 |
| ASTM D 412 | Elongation | percent | 1000 |
| ASTM D 412 | Modulus at 50 percent Elongation | psi | 75 |
| ASTM C 719 | Movement Capability | percent | ±25 |
| ASTM C 794 | Peel Strength | | |
| | to Float Glass | pli | 50 |
| | to Mill-Finished Aluminum | pli | 45 |
| | to PVC | pli | 25 |
| | to Treated Wood | pli | 20 |
| | to Fiberglass | pli | 45 |
| | to <i>Kynar</i> [™] -Coated Aluminium | pli | 50 |
| ASTM C 711 | Low-Temperature Flexibility | °C (°F) | -32 (-25) |
| ASTM C 793 | Weathering Resistance | | Excellent |
| CTM 0044 | Specific Gravity, uncured | | 1.061 |
| ASTM C 711 | Service Temperature Range | °C (°F) | -32 to 93 (-25 to 200) |

¹CTMs (Corporate Test Methods) correspond to standard ASTM tests in most instances. Copies of CTMs are available upon request.

²ASTM – American Society for Testing and Materials.

DESCRIPTION

Dow Corning InstantGlaze Window Assembly Sealant is a 100 percent silicone, neutral-cure sealant formulated to meet the demanding requirements of a backbedding sealant for the high-speed manufacturing of windows and doors. *Dow Corning* InstantGlaze delivers instant green

strength to offer productivity improvements in backbedding applications. Windows made with InstantGlaze can be immediately handled without the risk of compromising the integrity of the seal or distorting of the sash.

Dow Corning InstantGlaze is available in clear.

APPROVALS/ SPECIFICATIONS

- AAMA 802.3-92 (Type I & II)
- AAMA 805.2-94 (Group C)

HOW TO USE

Preparation

Surfaces should be clean and dry before sealant application.

Application

Dow Corning InstantGlaze is applied from 5 gallon pails or 55 gallon drums with a platen-type hot-melt pump. Application temperature is typically 120°C (250°F). When the melt temperature has been reached, application with automated or hand-assisted glazing equipment can begin.

Once applied to the sash, the glazing should be installed within 15 minutes. Once applied, this product reacts with atmospheric moisture to form a weather resistant, flexible silicone sealant. Exposure of opened containers with air should be minimized.

HANDLING PRECAUTIONS

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA SHEET IS AVAILABLE ON THE DOW CORNING WEBSITE AT WWW.DOWCORNING.COM, OR FROM YOUR DOW CORNING REPRESENTATIVE, OR DISTRIBUTOR, OR BY CALLING YOUR GLOBAL DOW CORNING CONNECTION.

Material is applied at 120°C (250°F). Use common personal protective equipment to prevent contacting the hot material with skin or eyes.

USABLE LIFE AND STORAGE

When stored at or below 32°C (90°F) in original unopened containers, *Dow Corning* InstantGlaze Window Assembly Sealant has a usable life of 12 months from the date of manufacture. Refer to product packaging for "Use By Date."

PACKAGING

Dow Corning InstantGlaze Window Assembly Sealant is available in 5-gal (20-L) pails containing 40 lb (18 kg) and 55-gal (200-L) drums containing 452 lb (205 kg).

LIMITATIONS

Dow Corning InstantGlaze Window Assembly Sealant is not intended for use:

- In spaces totally confined from atmospheric moisture during cure
- In continuous water immersion
- In below-grade applications
- In structural glazing applications
- As an insulating glass sealant
- On surfaces that require painting or staining
- On surface that might bleed oils, plasticizers or solvents
- On frost-laden or wet surfaces
- When movement capability greater than 25 percent is required

Avoid prolonged exposure to solvents.

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

HEALTH AND ENVIRONMENTAL INFORMATION

To support customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, www.dowcorning.com, or consult your local Dow Corning 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 Dow Corning's 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 Corning's sole warranty is that for a period of 10 years, the product will meet the Dow Corning 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.

DOW CORNING SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.