



Technical Data Sheet

DOWSIL™ 899 Silicone Glazing Sealant

Fast-cure silicone sealant for primary bedding and backbedding applications.

Features & Benefits

- Fast cure — 3-minute tooling time
- Maintains flexibility from -40°C to 149°C (-40 to 300°F)
- Excellent weather resistance against sunlight, rain, snow, and temperature extremes
- High strength
- AAMA certified

Composition

- One-part, neutral-cure, RTV silicone sealant

Applications

DOWSIL™ 899 Silicone Glazing Sealant can be used in a variety of glazing, sealing and weatherproofing applications where fast cure and good adhesion to many building properties is required, including:

- Primary bedding compound for glass in wood, vinyl and aluminum window sash
- Backbedding sealant for windows and doors

Typical Properties

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

Test ¹	Property	Unit	Result
As Supplied — Uncured			
CTM ² 0097	Specific Gravity		1.05
CTM 0098	Working (Skin-over) Time	minutes	3–5
ASTM D 2377	Tack-free Time	minutes	5–10
CTM 0663	Deep Section Cure, after 24 Hours	inches	0.08
ASTM D 2202	Flow/Sag (Slump)	inches (mm)	< 0.2 (< 5.1)
CTM 0364	Extrusion Rate	grams/minute	300
As Cured – After 7 Days at 25°C (77°F) and 50% RH			
ASTM C 661	Durometer, Shore A	points	35
ASTM D 412	Tensile	psi (kg/mm ²)	275 (0.193)
ASTM D 412	Elongation	percent	500

1. CTM: Corporate Test Method; copies of CTMs are available on request.
ASTM: American Society for Testing and Materials
2. CTM corresponds to standard ASTM tests in most instances.

Typical Properties (Cont.)

Test	Property	Unit	Result
ASTM D 412	100% Modulus	psi (MPa)	55 (0.379)
ASTM C 719	Movement Capability	percent	± 25
ASTM C 711	Temperature Range	°C (°F)	-40 to 149 (-40 to 300)
ASTM C 793	UV Resistance, 10,000 Hours QUV		Excellent

Description

DOWSIL™ 899 Silicone Glazing Sealant is a one-part, neutral cure, RTV sealant that cures in the presence of atmospheric moisture. This product exhibits excellent unprimed adhesion to most construction materials. Once cured, the sealant forms a durable, flexible, watertight bond with many building materials in any combination, including glass, plastic, wood, and aluminum. DOWSIL™ 899 Silicone Glazing Sealant is available in clear and gray.

Approvals/ Specifications

ASTM C 920, Type S, Grade NS, Class 25, Use NT, G and A.

How To Use

Preparation

Ensure that the surface to which the sealant is applied is clean, dry and free of all foreign materials.

Application

Apply DOWSIL™ 899 Silicone Glazing Sealant in a continuous operation using positive pressure adequate to properly fill and seal the joint.

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

When stored below 32°C (90°F) in original, unopened containers, DOWSIL™ 899 Silicone Glazing Sealant has a usable life of 12 months from date of manufacture. Refer to product packaging for "Use By" date.

For best results, keep the product in tightly closed containers when not in use.

Packaging Information

DOWSIL™ 899 Silicone Glazing Sealant is supplied in cartridges, pails and drums.

Limitations

DOWSIL™ 899 Silicone Glazing Sealant is not intended for use:

- As a structural glazing sealant
- In totally confined spaces where sealant cannot cure because of lack of atmospheric moisture
- In applications below grade
- On surfaces that will require painting or staining

Limitations (Cont.)

- As an insulating glass (IG) sealant
- Continuous water immersion
- On frost-laden or wet surfaces
- In areas where abrasion and physical abuse are encountered

DOWSIL™ 899 Silicone Glazing Sealant may stress crack polycarbonate.

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 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

NOTICE: No freedom from infringement of any patent owned by Dow or others is to be inferred. Because use conditions and applicable laws may differ from one location to another and may change with time, Customer is responsible for determining whether products and the information in this document are appropriate for Customer's use and for ensuring that Customer's workplace and disposal practices are in compliance with applicable laws and other government enactments. The product shown in this literature may not be available for sale and/or available in all geographies where Dow is represented. The claims made may not have been approved for use in all countries. Dow assumes no obligation or liability for the information in this document. References to "Dow" or the "Company" mean the Dow legal entity selling the products to Customer unless otherwise expressly noted. NO WARRANTIES ARE GIVEN; ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE EXPRESSLY EXCLUDED.

