



TBP Converting, Inc.
Dowsil 899 PDS



Technical Data Sheet

DOWSIL™ 899 Silicone Glazing Sealant

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

Fast-cure silicone sealant for primary bedding and backbedding applications

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*	Property	Unit	Result
As Supplied – Uncured			
CTM ¹ 0097	Specific Gravity		1.05
CTM 0098	Working (Skin-Over) Time	minutes	3–5
ASTM ² 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)	<0.02 (< 0.5)
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
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

*CTM: Corporate Test Methods Copies of CTMs are available upon request.

ASTM: American Society for Testing and Materials.

¹CTM corresponds to standard ASTM tests in most instances.

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 WWW.CONSUMER.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
- 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, 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.

TO THE FULLEST EXTENT PERMITTED BY APPLICABLE LAW, DOW SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

DOW DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES

www.consumer.dow.com