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.

<table>
<thead>
<tr>
<th>Test*</th>
<th>Property</th>
<th>Unit</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>As Supplied – Uncured</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CTM 0097</td>
<td>Specific Gravity</td>
<td>1.05</td>
<td></td>
</tr>
<tr>
<td>CTM 0098</td>
<td>Working (Skin-Over) Time</td>
<td>minutes</td>
<td>3–5</td>
</tr>
<tr>
<td>ASTM D 2377</td>
<td>Tack-Free Time</td>
<td>minutes</td>
<td>5–10</td>
</tr>
<tr>
<td>CTM 0663</td>
<td>Deep Section Cure, after 24 hours</td>
<td>inches</td>
<td>0.08</td>
</tr>
<tr>
<td>ASTM D 2202</td>
<td>Flow/Sag (Slump)</td>
<td>inches (mm)</td>
<td>&lt;0.02 (&lt; 0.5)</td>
</tr>
<tr>
<td>CTM 0364</td>
<td>Extrusion Rate</td>
<td>grams/minute</td>
<td>300</td>
</tr>
<tr>
<td></td>
<td>As Cured – After 7 days at 25°C (77°F) and 50% RH</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ASTM C 661</td>
<td>Durometer, Shore A</td>
<td>points</td>
<td>35</td>
</tr>
<tr>
<td>ASTM D 412</td>
<td>Tensile</td>
<td>psi (kg/mm²)</td>
<td>275 (0.193)</td>
</tr>
<tr>
<td>ASTM D 412</td>
<td>Elongation</td>
<td>percent</td>
<td>500</td>
</tr>
<tr>
<td>ASTM D 412</td>
<td>100% Modulus</td>
<td>psi (MPa)</td>
<td>55 (0.379)</td>
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<tr>
<td>ASTM C 719</td>
<td>Movement Capability</td>
<td>percent</td>
<td>±25</td>
</tr>
<tr>
<td>ASTM C 711</td>
<td>Temperature Range</td>
<td>°C (°F)</td>
<td>-40 to 149 (-40 to 300)</td>
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<tr>
<td>ASTM C 793</td>
<td>UV Resistance, 10,000 hours QUV</td>
<td>Excellent</td>
<td></td>
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</tbody>
</table>

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

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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.

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