



Technical Data Sheet

DOWSIL™ 999-A Building and Glazing Sealant

One-part sealant for glazing and curtainwall seal applications

Features & Benefits

- Resistant to sunlight, rain, sleet, snow, ultraviolet radiation, ozone and temperature extremes
- Retains design properties even after years of exposure – seals remain watertight and weatherproof
- Wide service temperature range from -60 to 177°C (-76 to 350°F) with intermittent temperatures up to 200°C (392°F)

Composition

- One-part acetoxo RTV silicone sealant that cures in the presence of air and moisture

Applications

- DOWSIL™ 999-A Building and Glazing Sealant is intended for general construction applications. It may be applied as a primary seal to most glass, plastic and metal assemblies if tested and shown to be acceptable for the intended use.

Typical Properties

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

Test ¹	Property	Unit	Result
As Supplied			
ASTM C 679	Tack-Free Time	minutes	10–20
Skin Formation Test	Tooling Time	minutes	5–10
ASTM C 639	Flow, Slag or Slump	inches	Nil
EPA Method 24	VOC Content, all colors, max ²	g/L	40
ASTM C 603	Extrusion Rate	g/min	350
As Cured – 7 days at 25°C (77°F) and 50% RH			
ASTM D 2240	Durometer Hardness,	Shore A	25
ASTM D 412	Ultimate Tensile Strength	Psi (MPa)	325 (2.1)
ASTM D 624	Tear Strength	Ppi (kN/m)	25 (4.4)
ASTM C 794	Peel Strength	Pli (kN/m)	20 (3.5)

1. ASTM: American Society for Testing and Materials
2. Based on South Coast Air Quality Management District of California. Maximum VOC is listed both inclusive and exclusive of water and exempt compounds.

Approvals/ Specifications

DOWSIL 999-A Building and Glazing Sealant meets the Qualifications of:

- ASTM C 920 Specification, Class 25

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.

Packaging Information

DOWSIL 999-A Building And Glazing Sealant is packaged in 10.3 fl oz (305 mL) disposable cartridges, which fit ordinary caulking guns, and 4.5 gal (17 L) bulk pails. It can be dispensed by many air-operated guns and most types of bulk dispensing equipment.

Limitations

DOWSIL 999-A Building and Glazing Sealant is not recommended for use in applications involving:

- Structural silicone glazing or joints where physical abuse or abrasion is likely to be encountered
- Prolonged water immersion or adhesion to porous surfaces, such as masonry
- Building materials that might bleed oils, plasticizers or solvents – materials such as impregnated wood, oil-based caulks, green or partially vulcanized rubber gaskets or tapes
- Totally confined spaces, because the sealant requires atmospheric moisture for cure
- Surfaces sensitive to corrosion by acetic acid vapors (a byproduct of sealant cure)
- Surfaces that will be painted (paint will not stretch with the extensions of the sealant and may crack and peel); complete all painting prior to using sealant
- Bonding to secondary seal of insulating glass units sealed with two-part silicone sealants
- Auto trim or appliance trim (i.e., adhesive trim).

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.

Table 1: Estimating Requirements

Linear Feet Per Gallon of DOWSIL 999-A Building and Glazing Sealant for Various Joint Sizes							
Deep, Inches		Width, Inches					
	1/8	1/4	3/8	1/2	5/8	3/4	1
1/8	1232	616	411	307	246	205	154
3/16		411	275	205	164	137	103
1/4		307	205	154	123	103	77
3/8			137	103	82	68	51
1/2			103	77	62	51	39

<http://www.consumer.dow.com>

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.

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A 10-year General Product Limited Warranty is available. Some testing may be required. Consult your sales application engineer for details.

