

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)

TYPICAL PROPERTIES

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

COMPOSITION

One-part acetoxy 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.

| 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, Sag or Slump | inches | Nil |
| EPA Method 24 | VOC Content, all colors, max2 | g/L | 40 |
| ASTM C 603 | Extrusion Rate | g/min | 350 |
| As Cured After 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.

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APPROVALS/ SPECIFICATIONS

DOWSIL999-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 ON OUR WEBSITE WWW.CRLAURENCE.COM

PACKAGING INFORMATION

DOWSIL 999-A Building And Glazing Sealant is packaged in 10.3 fl oz (305mL) disposable cartridges, which fit ordinary caulking guns.

LIMITATIONS

DOWSIL999-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 by product 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

| Table 1: Estimating Requirements | | | | | | | |
|----------------------------------|--------------|--|-----|-----|-----|-----|-----|
| | | Linear Feet Per Gallon of DOWSIL999-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 |

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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.

CRL'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.

CRL DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

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