



## Technical Data Sheet

### DOWSIL™ 1199 Silicone Glazing Sealant

Fast cure, one-part sealant ideal for automated glazing systems

#### Features & Benefits

- Fast cure
- Outstanding adhesion to wood, vinyl, fiberglass, aluminum, and glass window components
- Excellent weather resistance against sunlight, rain, snow, and temperature extremes (-40°C/-40°F to 149°C/300°F)
- 18 month shelf life from date of manufacture
- 10 standard colors as well as color matched colors available
- AAMA certified

#### Composition

- One part, neutral cure RTV sealant

#### Applications

- The fast cure nature of DOWSIL™ 1199 Silicone Glazing Sealant makes it ideally suited for automated glazing systems, resulting in improved throughput and productivity. Because of its outstanding adhesion, the product is excellent for use as a backbedding sealant on sash, as well as cap, toe, or heel bead applications.

#### Typical Properties

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

| Test <sup>1</sup>            | Property                          | Unit         | Result        |
|------------------------------|-----------------------------------|--------------|---------------|
| <b>As Supplied – Uncured</b> |                                   |              |               |
| CTM 0097                     | Specific Gravity                  |              | 1.02          |
| CTM 0098                     | Working (Skin Over) Time          | minutes      | 4–7           |
| ASTM D 2377                  | Tack Free Time                    | minutes      | 20–30         |
| CTM 0663                     | Deep Section Cure, after 24 hours | inches (mm)  | 0.120 (3.0)   |
| CTM 0364                     | Extrusion Rate                    | grams/minute | 200–350       |
| ASTM D 2202                  | Flow/Sag (Slump)                  | inches (mm)  | < 0.2 (< 5.1) |

1. CTM: Corporate Test Method, copies of CTM's are available on request.  
ASTM: American Society for Testing and Materials.

## Typical Properties (Cont.)

| Test                                                                           | Property                        | Unit      | Result    |
|--------------------------------------------------------------------------------|---------------------------------|-----------|-----------|
| <b>As Cured – After 7 Days at 24°C (75°F) and 50 Percent Relative Humidity</b> |                                 |           |           |
| ASTM C 661                                                                     | Durometer, Shore A              | points    | 23        |
| ASTM D 412                                                                     | Tensile Strength                | psi       | 180       |
| ASTM D 412                                                                     | Elongation                      | percent   | 600       |
| ASTM D 412                                                                     | 100% Modulus                    | psi (MPa) | 50 (0.34) |
| ASTM C 719                                                                     | Movement Capability             | percent   | ±25       |
| ASTM C 793                                                                     | UV Resistance, 10,000 hours QUV |           | Excellent |

### Description

DOWSIL 1199 Silicone Glazing Sealant is a one-part, neutral cure RTV sealant specially formulated to meet the demanding requirements as a backbedding sealant for the high speed manufacturing of windows and doors. Designed for aggressive adhesion to wood, vinyl, fiberglass, aluminum, and glass, DOWSIL 1199 Silicone Glazing Sealant will provide years of worry free performance against rain, sun, and temperature extremes.

DOWSIL 1199 Silicone Glazing Sealant is available in clear, white, bronze, beige, light bronze, gray, black, sand beige, forest green, and blue/white. Custom matched colors are available.

### Approvals/ Specifications

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

### How To Use

#### Preparation Work

Surface should be clean and dry before sealant application.

#### Application

Material from pails or drums can be applied using standard one component pumping and dispensing equipment.

### 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](http://WWW.CONSUMER.DOW.COM), OR FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

### Usable Life And Storage

DOWSIL 1199 Silicone Glazing Sealant should be stored below 32°C (90°F) in a dry location. When stored in original, unopened containers, DOWSIL 1199 Silicone Glazing Sealant has a usable life of 18 months from date of manufacture. Refer to product packaging for "Use By" date.

### Packaging Information

DOWSIL 1199 Silicone Glazing Sealant is supplied in cartridges, pails and drums.

## Limitations

DOWSIL 1199 Silicone Glazing Sealant is not intended for use:

- For continuous water immersion
- In below grade applications
- In spaces totally confined from atmospheric moisture during cure
- In silicone structural glazing applications
- As an insulating glass (IG) sealant
- On surfaces that will require painting or staining
- On surfaces that might bleed oils, plasticizers, or solvents
- On frost laden or wet surfaces
- In areas where abrasion and physical abuse are encountered

Premature movement of the unit may impact system performance.

DOWSIL 1199 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](http://www.consumer.dow.com) or consult your local Dow representative.

<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.

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