



DOWSIL™ 795 SILICONE BUILDING SEALANT



- Neutral, one-part silicone sealant
- Suitable for most new construction and remedial sealing applications
- Versatile – high-performance structural glazing and weather sealing from a single product
- Excellent weatherability virtually unaffected by sunlight, rain, snow, ozone and temperature extremes of -40°C to +149°C
- Excellent unprimed adhesion to a wide variety of construction materials and building components, including anodized, alodined, most coated and many Kynar-painted aluminium
- Easy application – ready to use as supplied
- Easy usage – all temperature gunnability, easy tooling and low-odour cure byproduct

APPLICATIONS

- Structural and nonstructural glazing
- Structural attachment of many panel systems
- Panel stiffener applications
- Weather sealing of most common construction materials including glass, aluminium, steel, painted metal, EIFS, granite and other stone, concrete, brick and plastics

Limitations:

DOWSIL™ 795 Silicone Building Sealant should not be used:

- In structural applications without prior review and approval by your local sales application engineer
- In below-grade applications
- When surface temperatures exceed 50°C (122°F) during installation
- On surfaces that are continuously immersed in water
- On building materials that bleed oils, plasticizers or solvents that may affect adhesion
- On frost-laden or wet surfaces
- In totally confined joints (the sealant requires atmospheric moisture for cure)
- If the sealant is intended to be painted (paints do not typically adhere to most silicone sealants)
- To surfaces in direct contact with food or other food-grade applications
- This product is neither tested nor represented as suitable for medical or pharmaceutical uses

APPROVALS/SPECIFICATIONS

Meets the requirements of Federal Specification TT-S 001 543A (COM-NBS) Class A for silicone building sealants, Federal Specification TT-S-00230C (COM-NBS) Class A for one-part building sealants, ASTM Specification C 920 Type S, Grade NS, Class 50, Use NT, G, A and O, ASTM Specification C 1184 for structural silicone sealants, Canadian Specification CAN2-19.13- M82



TYPICAL PHYSICAL PROPERTIES & PERFORMANCE DATA

| Test | Property | Value |
|-------------|---|------------------------|
| ASTM C 679 | Tack Free Time, 50% RH | 3 hours |
| | Curing Time at 25°C (77°F) and 50% RH | 7–14 days |
| | Full Adhesion | 14–21 days |
| ASTM C 639 | Flow, Sag or Slump | 0.1 (2.54) inches (mm) |
| | Working Time | 20–30 minutes |
| | VOC Content ² | 30 g/L |
| | As Cured After 21 Days at 25°C (77°F) and 50% RH | |
| | 2 mm thickness S2 dumb-bells (ISO 2 37/DIN 3 53 504) | |
| ASTM D 2240 | Durometer Hardness, Shore A | 35 points |
| ASTM C 794 | Peel Strength | 32 (5.7) lb/in (kg/cm) |
| ASTM C 1135 | Tension Adhesion Strength | |
| | At 25% Extension | 45 (0.310) psi (MPa) |
| | At 50% Extension | 60 (0.414) psi (MPa) |
| | 12x12x50 mm size T.A. joint (ISO 8339/DIN 2-8339) | |
| ASTM C 719 | Joint Movement Capability | ±50% |
| ASTM C 1248 | Staining (Granite, Marble, Limestone, Brick and Concrete) | None |
| | As Cured After 21 Days at 25°C (77°F) and 50% RH Followed by 10,000 Hours in a QUV Weatherometer, ASTM G 53 | |
| ASTM C 1135 | Tension Adhesion Strength | |
| | At 25% Extension | 35 (0.241) psi (MPa) |
| | At 50% Extension | 50 (0.345) psi (MPa) |

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.

DOWSIL™ 795 Silicone Building Sealant is a one-part, neutral-cure, architectural-grade sealant that easily extrudes in any weather and cures quickly at room temperature. This cold-applied, non-sagging silicone material cures to a medium modulus silicone rubber upon exposure to atmospheric moisture. The cured sealant is durable and flexible enough to accommodate ± 50% movement of the original joint dimension when installed in a properly designed weather seal joint. In a properly designed structurally glazed joint, the sealant is strong enough to support glass and other panel materials under high wind load.



HOW TO USE

PREPARATION

Clean all joints, removing all foreign matter and contaminants such as grease, oil, dust, water, frost, surface dirt, old sealants or glazing compounds and protective coatings.

APPLICATION METHOD

Install backing material or joint filler, setting blocks, spacer shims and tapes. Mask areas adjacent to joints to ensure neat sealant lines. Primer is generally not required on nonporous surfaces but may be necessary for optimal sealing of certain porous surfaces. A test placement is always recommended. Apply DOWSIL™ 795 Silicone Building Sealant in a continuous operation using positive pressure. (The sealant can be applied using many types of air-operated guns and most types of bulk dispensing equipment.) Before a skin forms (typically within 15 minutes), tool the sealant with light pressure to spread the sealant against the backing material and joint surfaces. Remove masking tape as soon as the bead is tooled.

GENERAL INFORMATION

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 DOW.COM, FROM YOUR DOW SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CUSTOMER SERVICE.

USABLE LIFE AND STORAGE

When stored at or below 27°C (80°F), DOWSIL™ 795 Silicone Building Sealant has a shelf life of 12 months from the date of manufacture. Refer to the product packaging for "Use By Date."

PACKAGING INFORMATION

DOWSIL™ 795 Silicone Building Sealant is supplied in 10.3 fl oz. (305 mL) disposable plastic cartridges that fit ordinary caulking guns, 20 fl oz. (590 mL) sausages

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 visit dow.com or consult your local sales representative.

DISPOSAL CONSIDERATIONS

Dispose in accordance with all local regulations. Empty containers may contain hazardous residues. This material and its container must be disposed of in a safe and legal manner. It is the user's responsibility to verify that treatment and disposal procedures comply with local regulations.

CUSTOMER NOTICE

Dow strongly encourages its customers to review both their manufacturing processes and their applications of Dow products from the standpoint of human health and environmental quality to ensure that Dow products are not used in ways for which they are not intended or tested. NFK personnel are available to answer your questions and provide reasonable technical support. Dow product literature, including safety data sheets, should be consulted prior to the use of Dow products.