

Silicone Sealants

Dow Corning® 786 Silicone Sealant

FEATURES

- Cured sealant is mildew resistant
- Remains permanently flexible without shrinking, cracking, crumbling or drying out
- Resists staining, spotting and color changes
- Resists moisture and free steam
- Retains original design properties even after years of exposure

COMPOSITION

- One-part, acetoxycure silicone rubber sealant

Silicone rubber sealant for nonporous surfaces, showers, tubs, sinks and plumbing fixtures

APPLICATIONS

Dow Corning® 786 Silicone Sealant is designed to seal nonporous surfaces around showers, tubs, sinks and plumbing fixtures where conditions of high humidity and temperature extremes exist. Typical applications include:

- Sealing around shower-tub enclosures, tubs, sinks, urinals and whirlpools
- Sealing around bathroom fixtures
- Waterproofing rimless sinks
- Ceramic tile grouting

TYPICAL PROPERTIES

Specification Writers: Please contact your local Dow Corning Sales Application Engineer or Dow Corning Customer Service before writing specifications on this product.

Method	Test	Unit	Result
As Supplied			
ASTM C 679	Tack-Free Time at 25°C (77°F), 50% RH	minutes	20
	Tooling Time	minutes	5-11
ASTM C 639	Flow, sag or slump Color		Nil White, transparent white, almond, clear, gray
	Application Temperature Range	°C (°F)	-37 to 60 (-35 to 140)
	VOC Content ¹	g/L	33
As Cured – 7 days at 25°C (77°F) and 50% RH			
ASTM D 2240	Durometer Hardness, Shore A	points	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)
ASTM C 603	Extrusion Rate	g/min	350

¹Based on South Coast Air Quality Management District of California. Maximum VOC is listed both inclusive and exclusive of water and exempt compounds. For a VOC data sheet for a specific sealant color, please send your request to product.inquiry@dowcorning.com.

DESCRIPTION

Dow Corning 786 Silicone Sealant is a single-component, ready-to-use silicone rubber sealant. The sealant adheres to many nonporous surfaces, such as porcelain, cultured marble, marble, painted areas and glass, without the use of a primer.

Dow Corning 786 Silicone Sealant is available in white and transparent.

Dow Corning 786 Silicone Sealant is compatible with most substrates. However, adhesion and compatibility should be evaluated in each instance prior to use.

Cured *Dow Corning* 786 Silicone Sealant is mildew resistant even in prolonged hot and humid environments.

Primers: Primers are not usually required on ceramic, glass and glazed surfaces. It is possible that certain

products should be primed for maximum adhesion. A recommended primer for use with metals, formica and plastics is *Dow Corning*[®] 1200 Prime Coat. Refer to the Surface Preparation Guide, No. 61-182, for more specific recommendations. In cases where doubt exists, a sample should be tested before full-scale use.

APPROVALS/ SPECIFICATIONS

Dow Corning 786 Silicone Sealant meets the qualifications of:

- ASTM C 920, Type S, Grade NS, Class 25, Use NT, when tested to glass and aluminum
- Canadian Specification CGSB 19-GP-22M
- FDA Regulation No. 21 CFR 177.2600 (subject to end use compliance with any applicable total extractives limitations)
- National Sanitation Foundation Standard 51

HOW TO USE

Please consult the *Dow Corning Americas Technical Manual*, Form No. 62-1112, for detailed information on state-of-the-art application methods and joint design. Please contact your local *Dow Corning* Sales Application Engineer for specific advice.

Preparatory Work

Bonding surfaces on both new and remedial jobs must be sound, clean, dry, and free of dust, frost and soap residue.

Wipe the surfaces using a clean, oil-free rag saturated with solvent such as xylol, toluol or methyl ethyl ketone.

CAUTION: When using flammable solvents, keep away from heat and open flames. Use only with adequate ventilation. Avoid prolonged or

repeated skin contact. Always follow solvent container label instructions.

Do not flood surfaces with more solvent than necessary. Do not clean surfaces with soap, detergent or any water-based cleaner. Make sure that apparently clean surfaces are not covered with a thin film of construction dust.

Priming

Although primers are not usually required on ceramic, glass and glazed surfaces, it is possible that certain products should be primed for maximum adhesion. A bead of the silicone sealant on the substrate material to test adhesion prior to general job use is always recommended.

Masking

If bead lines of exact shapes are required, use masking tape before applying *Dow Corning* 786 Silicone Sealant. Remove immediately after a bead is completed and before a "skin" forms (5-10 minutes).

Application

Dow Corning 786 Silicone Sealant can be applied directly from the caulking cartridge with either an air-operated or hand-operated cartridge gun. Do not break the cartridge seal until just before use.

After applying the sealant and a skin has formed, do not disturb the joint for 48 hours. A previously opened cartridge may be reused by removing the cured plug of sealant from the tip.

Tooling

Tooling is recommended and, if possible, should be completed in one continuous stroke.

Tool the joints within 10 minutes of application. Remove masking tape before a surface skin begins to form. Once a surface skin begins to form, it will be torn off when the tape is removed, leaving a rough surface.

Clean-Up

Excess sealant should be cleaned off tools and nonporous surfaces while it is in the uncured state, by using a commercial solvent such as xylol, toluol or methyl ethyl ketone.

Maintenance

Cured sealant can be cleaned with soap and water. If sealant becomes damaged, replace damaged portion.

HANDLING PRECAUTIONS

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA SHEET IS AVAILABLE ON THE DOW CORNING WEBSITE AT WWW.DOWCORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.

USABLE LIFE AND STORAGE

When stored in original unopened containers at or below 32°C (90°F), *Dow Corning* 786 Silicone Sealant has a shelf life of 30 months from date of manufacture. Refer to product packaging for "Use By" date.

PACKAGING

Dow Corning 786 Silicone Sealant is supplied in 10.3-fl oz (305-mL) cartridges.

LIMITATIONS

Dow Corning 786 Silicone Sealant is not recommended for use in applications involving:

- Structural silicone glazing
- Floor joints where physical abuse or abrasion is likely to be encountered
- Prolonged water immersion
- Porous surfaces, such as masonry
- Building materials that might bleed oils or solvents – materials such as impregnated wood, partially vulcanized rubber gaskets or tapes or adhesives
- Totally confined spaces, because the sealant requires atmospheric moisture for cure
- Surfaces sensitive to corrosion by acetic acid vapors (a byproduct of sealant cure)

This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

SHIPPING LIMITATIONS

None.

HEALTH AND ENVIRONMENTAL INFORMATION

To support customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, www.dowcorning.com, or consult your local Dow Corning Sales Application Engineer.

AVAILABILITY

Dow Corning 786 Silicone Sealant is marketed throughout the Americas through construction distributors and building supply outlets.

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 Dow Corning's 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 Corning's sole warranty is that the product will meet the Dow Corning 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.

DOW CORNING SPECIFICALLY DISCLAIMS ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR MERCHANTABILITY.

DOW CORNING DISCLAIMS LIABILITY FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES.

A 10-year General Product Limited Warranty is available. Some testing may be required. Consult your Dow Corning Sales Application Engineer for details.

