

DOWSIL™ 786 Sanitary Silicone Sealant

Product Description

One part, ready to use, acetoxy-cure silicone rubber sealant for surfaces, showers, tubs, sinks and plumbing fixtures which contains an antimicrobial. Product has been tested against a spectrum of microbes. DOWSIL™ 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.

Features

- Cured sealant is mildew resistant
- Remains permanently flexible without shrinking, cracking, crumbling or drying out
- Resists staining, spotting and color changes
- Retains original design properties even after years of exposure
- Complies with FDA Regulation No. 21 CFR 177.2600
- Adheres to many surfaces, such as porcelain, cultured marble, painted areas and glass, without the use of a primer
- ASTM C 920, Type S, Grade NS, Class 25, Use NT, when tested to glass and aluminum
- NSF ANSI 51 for all food contact types

Applications

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

Physical information

	Value
Tack-free Time at 25°C (77°F), 50% RH	ASTM C 679 20min
Tooling Time	5–11min
Flow, Sag or Slump	Nil
Colour	Clear, White
Extrusion Rate	ASTM C 603 350g/min
Volatile Organic Content (VOC) ²	ASTM C 603 22g/l

As Cured – 7 Days at 25°C (77°F) and 50% RH

Durometer Hardness, Shore A	ASTM D 2240 25 points
Ultimate Tensile Strength	325 (2.1) psi (Mpa) ASTM D 412
Tear Strength	25 (4.4) ppi (kN/m) ASTM D 624
Peel Strength	20 (3.5) pli (kN/m) ASTM C 794

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.

Installation

Preparatory Work:

Bonding surfaces on both new and remedial jobs must be sound, clean, dry, and free of dust, frost, and soap residue. Wipe surfaces using clean rag saturated with solvent such as isopropyl alcohol or mineral spirits

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 DOWSIL™ 786 Silicone Sealant. Remove immediately after a bead is completed and before a “skin” forms (5–10 minutes).

Application:

DOWSIL™ 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 surfaces while it is in the uncured state but using a commercial solvent such as isopropyl alcohol or mineral spirits.

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 SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION.

Storage

Product should be stored at or below 32°C (90°F) in original, unopened containers. Product should be used prior to the use by date on packaging.

Limitations

DOWSIL™ 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
- Cementous 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)
- A surface that is intended to be painted

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

Disposal

Dispose in accordance with all local regulations. Empty containers may contain hazardous residues. This material and its container must be disposed in a safe and legal manner.

Please note: The above technical information is given as a guide and is based on recent test data obtained under laboratory conditions. Materials should be fully tested by the end user to establish suitability of the product for the intended application. August 2024

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