



SCS1700 Sanitary Silicone Sealant

Product Description

SCS1700 silicone sealant is a one-component, acetoxy cure silicone containing a fungicide that is supplied as a paste and upon cure, produces a durable, formed-in-place silicone rubber seal that is mildew and mold resistant. SCS1700 is an excellent candidate to consider the prevention of mildew formation around fixtures in areas such as locker rooms, swimming pool facilities and lavatories.

Key Features and Typical Benefits

Performance

- **Silicone Durability**—Cured silicone provides excellent long-term resistance to natural weathering, humidity and high & low temperatures with negligible change in elasticity.
- **Mildew Resistant**—Contains a fungicide that enables the sealant to resist both mold and mildew even when exposed to prolonged hot and humid environments.
- **±25% Movement Capacity**—Can accommodate 25% movement in both extension and compression and has excellent recovery after cycling.

Application

- **Fast Cure Time**—Tack free in 30 minutes and full cure of many common bead sizes in 24-48 hrs.
- **Adhesion**—Primerless adhesion to many substrates and finishes including: glass, ceramic, porcelain, tiles, stainless steel, numerous plastics, glazed surfaces, imitation marble, aluminum, and many composite materials. Some finishes or substrates may require a primer.
- **Good Workability**—Temperature stable paste which is easily gunned and tooled under hot and cold conditions.
- **Thermal Stability**—Once cured, the material properties remain fully elastic over a range of -55°F (-48°C) to 400°F (204°C).
- **Low Sag or Slump**—Useful for application to horizontal, vertical or overhead surfaces.

Potential Applications

SCS1700 is a candidate to consider:

- For use as a seal around bathtubs, shower stalls, wall fixtures, sinks, and other bathroom fixtures including countertops, soap fixtures, air dryers and drains.
- For grouting and bedding some ceramic tiles.
- In interior and exterior applications where areas are prone to mold and mildew formation.

Packaging

SCS1700 is available in 10.1 fl. oz. (299 ml) plastic caulking cartridges with removable nozzles. Removable nozzles are easily transferred between cartridges for consistent bead size without having to re-cut each nozzle. Plastic cartridges are packaged as 24 units in cardboard boxes and are dispensed using a single component hand or air-pressured caulking gun. In addition to plastic caulking cartridges, SCS1700 is available in 55 gallon drums (42 gals. / 158.9 L).

Colors

SCS1700 is available in 2 standard colors plus translucent.

<u>Grade</u>	<u>Color</u>
SCS1701	Translucent
SCS1702	White
SCS1705	Almond



Typical Physical Properties

Typical property values of SCS1700 as supplied and cured are set forth in the tables below. Typical product data values should not be used as specifications.

Typical Properties – Supplied

Property	Value ⁽¹⁾	Test Method
Consistency	Paste	
Polymer	100% silicone	
VOC	20 g/l	WPSTM C1454
Work Life (tooling time)	5-10 minutes	
Tack Free Time (@ 72°F (22°C), 50% RH)	30-45 minutes	ASTM C679
Sag/Slump	0.1"	ASTM D2202

Typical Properties – Cured

Property	Value ⁽¹⁾	Test Method
Hardness, Durometer (Type A Indentor)	30	ASTM D2240
Ultimate Tensile Strength	292 psi (2.0 MPa)	ASTM D412
Ultimate Elongation	373%	ASTM D412
Peel Strength (average) (21-day cure @ 75°F (24°C) 50% RH)	30.4 pli (5.3 kN/m)	ASTM C794
Joint Movement Capability	±25%	ASTM C719
Service Temperature Range	-55°F to +350°F (after cure)	(-48°C to 177°C)
Application Temperature Range	+40°F to +122°F (4°C to 50°C)	
Weathering and U.V. Resistance	Excellent	GE 20 yr. study
Cure Time (1/4" or 6 mm deep section) @ 75°F (24°C) 50% RH	2-3 days	

(1) Typical properties are average data and are not to be used as or to develop specifications.

Installation

Sealants may not adhere or maintain long-term adhesion to substrates if the surface is not prepared and cleaned properly before sealant application. In all cases the applicator must confirm the acceptability of each sealant-substrate combination with a site adhesion test prior to proceeding with project installation. A GE sealant primer may be selected to enhance sealant bonding on some difficult to adhere to substrates. MPM can provide information and suggestions to user upon request.

Surface Preparation

Glass, Metals Paints, Smooth Surfaces, etc.

- Smooth surfaces can be wiped clean using a rag dampened with a cleaning solvent (Isopropyl Alcohol is typically useful). Proceed by cleaning the surfaces using a rag wetted with solvent and immediately use a second clean rag to wipe the wet solvent from the surface before it evaporates. Repeat this procedure as necessary until no contaminants are visible on the second cleaning rag.
- Rough surfaces such as concrete, brick and masonry can be cleaned by wire brush, mechanical abrading, grinding or a combination of these methods to provide a stable clean surface for sealant application. Secondly, follow this with an air blow or brush (soft-bristled) to remove dust.
- All surfaces that are to receive sealant must be clean, dry and free of contaminants (such as moisture/frost, oils, concrete form release agents, old sealants, asphalt and other surface treatments, etc.) to allow for optimal adhesion.

Masking

The use of masking tape is recommended where appropriate to ensure a neat job and to protect adjoining surfaces from over-application of sealant. Masking tape should be removed immediately after tooling the sealant and before the sealant begins to skin over (tooling time).

Storage Conditions

SCS1700 should be stored in the original unopened container at 80°F (27°C) or lower.

Applicable Standards

SCS1700 meets or exceeds the requirements of the following specifications:

American Society for Testing & Materials International

- ASTM C 920 Standard Specification for Elastomeric Joint Sealants; Type S, Grade NS, Class 25, Use A, G, O, NT

U.S. Federal Specifications: (cancelled Sept. 1996)

- TT-S-001543A Sealing Compound: Silicone Rubber Base (for Caulking, Sealing & Glazing in Buildings and Other Structures)
- TT-S-00230C Sealing Compound: Elastomeric Type, Single Component (for Caulking, Sealing & Glazing in Buildings and Other Structures)

Canadian General Standards Board (inactive)

- CCGSB-19.13-M87 Sealing Compound, One-Component, Elastomeric, Chemical Curing
- CGSB-19.22-M89 Mildew-Resistant Sealing Compound for Tubs and Tiles



Technical Services

Additional technical information, literature, laboratory testing and application engineering may be available upon request from MPM. Any technical advice furnished by MPM or any representative of MPM concerning any use or application of any MPM product is believed to be reliable but MPM makes no warranty, expressed or implied, of suitability for use in any application for which such advice is furnished.

Limitations

Customers must evaluate Momentive Performance Materials (MPM) products and make their own determination as to fitness of use in their particular applications.

SCS1700 is not recommended:

- For use underwater or in other applications where the product will be in continuous contact with water.
- For use in food contact applications.
- When painting of the cured sealant is desired unless appropriate specialized paint products are used such as GE SEC2400 SilShield™.
- For use on aquariums as leaching of the fungicide can occur.
- For use on surfaces with special coatings, such as mirrors, without testing and approval of the manufacturer of the article.

SCS1700 should not be applied or used:

- Under exceedingly hot or cold conditions (see Sealant Typical Properties table).
- On wet, damp, frozen or contaminated surfaces.
- On excessively basic or acidic substrates.
- On concrete, marble, limestone, lead or lead coated surfaces.
- In designs or applications where the silicone is encapsulated and without access to atmospheric moisture needed to cure.

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

SSG4600A base should be stored at or below 80°F (27°C). SSG4603B and SSG4607B catalyst must be stored at or below 70°F (21°C). Keep containers out of direct sunlight for prolonged periods.

Customers considering the use of this product should review the latest Safety Data Sheet and label for product safety information, handling instructions, personal protective equipment if necessary, and any special storage conditions required. Safety Data Sheets are available at www.siliconeforbuilding.com or, upon request, from any MPM representative.



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