

SCS2350

Silicone Elastomeric Sealant

Product Description

SCS2350 is a neutral cure silicone sealant that is an excellent candidate for general glazing and sealing as well as for internal frame sealing on curtainwall assemblies. SCS2350 is supplied as a paste and upon cure produces a durable silicone rubber seal.

Key Features and Typical Benefits

Performance

- **Silicone Durability** – Cured silicone rubber exhibits long term resistance to natural weathering, including: ultraviolet radiation, high and low temperatures and rain and snow, with negligible change in elasticity.
- **±25% Movement Capacity** – Can accommodate 25% movement in both extension and compression and has excellent recovery after cycling.
- **Faster Curing** – Shortened work life to allow quicker handling time.
- **Low VOC** – Significantly lower than the U.S. Green Building Council's Leadership in Energy and Environmental Design (L.E.E.D.) program's requirements.

Application

- **Adhesion** – Primerless adhesion to many substrates and finishes including: glass, polycarbonate, vinyl, numerous plastics, fluoropolymer and powder coated paints (including overspray, conversion-coated and anodized aluminum, ceramic and porcelain materials).
- **Good Workability** – Temperature stable paste which is easily gunned and tooled under hot and cold conditions.
- **Thermal Stability (cured state)** – Once properly cured, the material remains flexible over a range of -55°F (-48°C) to 250°F (121°C) and up to 350°F (177°C) under intermittent short term exposure.

Product Compatibility

- Compatible with the following Momentive Performance Materials (MPM) silicone coatings: SilShield™, Optic™, Enduris™, and Elemax™.
- Compatible with the following silicone products: IGS3713, IGS3723, RGS7700, SCS2000, SCS2700, SCS2800, SCS2811, SCS9000, SSG4000, SSG4000E, SSG4400, SSG4600, SSG4800J, SWS.

Potential Applications

SCS2350 is an excellent candidate to consider:

- As a weatherproofing material when sealing between dissimilar or similar materials in either new or remedial glazing / sealing applications.
- As an internal frame sealant for curtainwall assembly.
- As an adhesive in panel stiffener applications.

SCS2350 silicone elastomeric sealant should not be used:

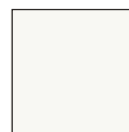
- Underwater or when in continuous contact with water.
- Where painting of sealant is required.
- As the structural sealant in Structural Silicone Glazing (SSG) applications.
- On mirrors.
- On wet, damp, frozen or contaminated surfaces.
- To adhere UltraSpan products.

Packaging

SCS2350 is available in 10.1 fl. oz. (299 ml) plastic caulking cartridges, and can be made to order in 20 fl. oz. (591.5 ml) foil sausage packs.

Colors

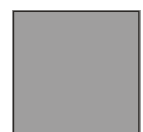
SCS2350 sealant series is available in 3 standard, stocked colors.



SCS2350.02
White



SCS2350.03
Black



SCS2350.09
Grey

Typical Physical Properties

Typical property values of SCS2350 silicone elastomeric sealant 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	N/A
Polymer	100% silicone	N/A
VOC	2.20 wt.%	WPSTM C1454
Work Life (tooling time)	15 minutes	N/A
Tack Free Time	1-2 hours (@ 73°F, 50% RH)	ASTM C679
Sag/Slump	0.05" (1mm)	ASTM D2202

Typical Properties – Cured

Property	Value ⁽¹⁾	Test Method
Hardness	30 (±3)	ASTM D2240
Peel Strength (average) (21-day cure @ 75°F (23°C) 50% RH)	>35 pli (>6.3 kg/cm)	ASTM C794
Movement Capability	±25%	ASTM C719
Service Temperature Range (after cure)	-55°F to +250°F (-48°C to 121°C)	N/A
Application Temperature Range	+40°F to +122°F (4°C to 50°C)	N/A

(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. MPM 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.

- 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.

NOTE: When handling solvents, refer to manufacturer's MSDS for information on handling, safety and personal protective equipment.

Masking

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).

Sealant Application

1. Cut tapered nozzle of caulking cartridge; suggest cutting nozzle at a 45° angle to assist in the dispensing & application of the sealant. The further down you cut, the bigger the opening and resulting bead size. Keep in mind that there is a 1/4" minimum contact surface of sealant required on all surfaces.
2. If applicable, puncture foil tip seal with nail and place cartridge in caulking gun.
3. Hold gun at a 45° angle to surface and squeeze trigger using even pressure.
4. Once sealant begins to dispense, move gun along at even pace. The sealant should fill the gap and touch both surfaces. The best bead is usually achieved by pushing the sealant out in a forward motion.
5. A tooling knife is then used to smooth the bead. Bead should be tooled within a few minutes of dispensing or before skin over (see typical properties for "tooling time").
6. Leave sealant undisturbed until sufficient cure.

Tooling

- Tool or strike the sealant with a concave tool applying light pressure to spread the material against the back-up material and the joint surfaces to ensure a void-free application.
- On sill applications, tool the sealant to shed water and to eliminate ponding.
- Tooling agents such as water, soap, or detergent solutions are not recommended.

Applicable Standards

SCS2350 silicone elastomeric sealant meets or exceeds the requirements of the following specifications:

American Society for Testing & Materials International.

- ASTM C920 Standard Specification for Elastomeric Joint Sealants; Type S, Grade NS, Class 25, Use A, G, O, NT.

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.

Joint Designs and Dimensions

- **Joint Movement** – All moving joints should be designed so as not to allow three-sided adhesion of the sealant to occur. Three-sided adhesion hinders the ability of the sealant to extend and compress freely as desired and can lead to early joint failure (reference ASTM C1193 Standard Guide for Use of Joint Sealants).
- **Joint Width** – When using SCS2350 in a butt joint application, a minimum width of 1/4" is recommended and the sealant profile is best when cast in an hourglass shape with the depth of the sealant over the crown of the backer rod between 1/8" and 3/8".

Backer materials, typically backer rod, provide the following benefits to aide in the correct application of SCS2350 silicone elastomeric sealant.

- To control and provide the desired sealant depth.
- Create a formed joint cavity that allows for the desired hour-glass sealant shape.
- Provide a firm backup which helps attain full wetting of the substrates when the sealant is tooled.
- Act as a bond breaker to eliminate adhesion on the backside of a joint (three-sided adhesion).

Limitations

Customers must evaluate MPM products and make their own determination as to fitness of use in their particular applications.

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

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.siliconesforbuilding.com or, upon request, from any MPM representative. Use of other materials in conjunction with MPM sealants products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

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