

SCS2900 UltraPruf™ II

Silicone Weatherproofing Sealant

Product Description

SCS2900 UltraPruf II silicone is a primerless weatherproofing sealant for new and remedial applications comprising a wide variety of substrates. Supplied as a paste, SCS2900 UltraPruf II silicone weatherproofing sealant is a one-component, medium-modulus, neutral cure sealant that dries to a matte finish.

Key Features and Typical Benefits

Performance

- **Low VOC Content** - significantly lower than the requirements of the U.S. Green Building Council's Leadership in Energy and Environmental Design (L.E.E.D.) Program. Neutral cure byproduct with low odor.
- **±50% Movement Capacity** - can accommodate 50% movement in both extension and compression and has excellent recovery after cycling.
- **Silicone Durability** - cured silicone rubber exhibits excellent long term resistance to natural weathering including: extreme temperatures, ultraviolet radiation, and rain and snow, with negligible change in elasticity. Once cured, the material remains elastic over a range of -55°F (-48°C) to 212°F (100°C).
- **Adhesion with Low Sag** - primerless adhesion to many substrates and finishes, and to horizontal, vertical or overhead surfaces.

Note: SCS2900 UltraPruf II silicone weatherproofing sealant should not be considered for:

- Underwater or in other applications where the product will be in continuous contact with water.
- Food contact applications.
- Situations when painting of the cured sealant is desired (unless appropriate specialized paint products are used).
- Use as a structural adhesive in structural glazing applications.
- Application of product in exceedingly hot or cold conditions, to wet, damp, frozen or contaminated surfaces or to excessively basic or acidic substrates (see Sealant Application Guide for additional information).

Potential Application

Weatherproofing

- Between dissimilar or similar materials in either new or remedial glazing and sealing applications.
- Around window perimeters and punched openings.

Adhesive

- Panel stiffener applications.
- Adhering US1100 UltraSpan™ pre-cured silicone weatherstrip product line.

Packaging

SCS2900 UltraPruf II silicone weatherproofing sealant is currently available in the following configurations:

- 10.1 fl oz (300 ml) plastic caulking cartridges.
 - Cartridges are packed in cardboard boxes (24 qty)
 - Cartridges are dispensed using a single component hand or air-pressured caulking gun
- 20 fl oz (591.5 ml) foil sausage packs.
- Cartridges are designed for convenience in shipping and are easily handled by warehouse workers and mechanics on scaffolds and staging.
- Sausage packs are designed to reduce volume of used containers compared to conventional sealant cartridges, resulting in reduced waste.
- Sausage packs may also help boost productivity by cutting typical reload time in half.

Please contact your local sales representative for additional packaging availability options that may be available.

Colors

SCS2900 UltraPruf II silicone weatherproofing sealant cures to a matte finish and is currently available in eight (8) standard colors and can be custom colored.

Grade	Color
SCS2902	White
SCS2903	Black
SCS2904	Limestone
SCS2908	Light Grey
SCS2909	Aluminum Grey
SCS2920	Precast White
SCS2960	Smoke Grey
SCS2997	Bronze

Custom colors may be available with a longer lead time. Please contact your local sales representative with any non-standard color requests.

Typical Physical Properties

Typical physical property values of SCS2900 UltraPruf II silicone waterproofing sealant as supplied and cured are set forth in the tables below.

Typical Properties – Supplied

Property	Value ⁽¹⁾	Test Method
Consistency	Paste	
Polymer	100% Silicone	
VOC	30 g/l	WPSTM C1454
Working Life (tooling time)	30-40 minutes	
Tack Free Time	5-9 hours (@ 72°F, 50% RH)	ASTM C679
Sag/Slump	0.1" (2.5 mm) max	ASTM D2202

Typical Properties – Cured

Property	Value ⁽¹⁾	Test Method
Hardness, Durometer (Type A Indentor)	23	ASTM D2240
Ultimate Tensile Strength	230psi (1.59 MPa)	ASTM D412
Ultimate Elongation	745%	ASTM D412
Peel Strength (average) (21-day cure @ 75°F (21°C) 50% RH)	46 (8.2 kN/m) pli	ASTM C794
Joint Movement Capability	±50%	ASTM C719
Service Temperature Range (after cure)	-55°F to +300°F (-48°C to 149°C)	
Weathering and U.V. Resistance	Excellent	20 yr. study
Cure Time (1/4" or 6 mm deep section)@ 75°F (24°C) 50% RH		
Full Cure (most common bead sizes)		

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

Applicable Standards

SCS2900 UltraPruf II silicone waterproofing 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 50, Use A, G, M, O
- ISO 11600: Type F & G Class 25LM
- **China GB Standards**
GB14683 test requirements.

Technical Services

For additional technical resources, please contact your local customer service center. (See Customer Service Centers section herein for contact information.) 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 MPM products and make their own determination as to the fitness of use in their particular applications.

Patent Status

Nothing contained herein shall be construed to imply the non existence 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 Material Safety Data Sheet and label for product safety information, handling instructions, personal protective equipment if necessary, and any special storage conditions required. Material 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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