

GE Paintable SCS7000

high performance weathersealant

Product Description

GE Paintable SCS7000 weathersealant is a neutral single-component, high performance hybrid sealant offering excellent weatherability with non-staining performance and exceptional paintability. GE Paintable SCS7000 weathersealant is supplied as a paste which produces a durable, formed-in-place rubber joint sealant upon cure for use in both interior & exterior applications.

Typical Performance Properties

- **Improved Paintability** - the cured sealant provides a surface that most commercially available paints & coatings will adhere to. GE Paintable SCS7000 weathersealant can be painted immediately after application, or anytime thereafter, with most paints & coatings.
- **Weatherability** - cured sealant exhibits good resistance to natural weathering for long term performance in interior and exterior applications.
- **Versatile Adhesion** - attains strong bonds to many substrates and finishes without the need for primers or surface conditioners. Suitable substrates include: masonry, brick, terra-cotta, concrete, GFRC, natural stones, glass, plastics, metals, stucco, wood and painted or anodized aluminum. Some finishes or substrates may require a primer.
- **50% Flexibility** - 50% movement capacity in both extension and compression.
- **Nonstaining** - can improve appearance on building facades where streaking can occur and on natural stones which can become discolored by some sealants.
- **Low Dirt Retention** - cured sealant minimizes the pick-up of dirt, dust and other atmospheric contaminants, maintaining a clean appearance.
- **Non Slumping** - firm consistency paste with easy tooling characteristics for application to horizontal, vertical or overhead surfaces.
- **Low VOC** - 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.

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We are helping customers solve product, process, and performance problems; our silanes, fluids, elastomers, sealants, resins, adhesives, urethane additives, and other specialty products are delivering innovation in everything from car engines to biomedical

devices. From helping to develop safer tires and keeping electronics cooler, to improving the feel of lipstick and ensuring the reliability of adhesives, our technologies and enabling solutions are at the frontline of innovation.



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Basic Uses

- GE Paintable SCS7000 weathersealant is useful as a weatherproofing material when sealing between dissimilar or similar materials in either new or remedial sealing applications.
- GE Paintable SCS7000 weathersealant is useful as a weatherproofing sealant at window perimeters and punched openings.
- GE Paintable SCS7000 weathersealant is useful for interior/ exterior applications where painting over the sealant is desirable.



Packaging

GE Paintable SCS7000 weathersealant is available in 20 fl.oz. (591 ml) foil sausage packs and 2 gallon plastic pails (2 gals. / 7.6 L).

Colors

GE Paintable SCS7000 weathersealant is available in White (SCS7000.02).

Limitations

GE Paintable SCS7000 weathersealant is not suggested:

- For use underwater or in when in continuous contact with water.
- For use in Silicone Structural Glazing (SSG) Applications.
- For use on wet, damp, frozen or contaminated surfaces.

Precautions

- This material requires atmospheric moisture to cure from paste to rubber and may not attain its listed final cured rubber properties when used in designs or applications where the sealant is encapsulated.

Technical Services

Additional technical information and literature may be available from Momentive Performance Materials.¹ Laboratory facilities and application engineering are available upon request from Momentive Performance Materials.¹

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Specifications

Typical property values of GE Paintable SCS7000 weathersealant 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	Silicone modified	
VOC	9.5 g/l	WPSTM C1454
Tooling Time	30-40 minutes	

Typical Properties – Cured

Property	Value(1)	Test Method
Hardness, Durometer (Type A indenter)	24	ASTM D2240
Ultimate Tensile Strength	341 psi (2.35 MPa)	ASTM D412
Ultimate Elongation	715%	ASTM D412
Joint Movement Capability	±50%	ASTM C719
Staining (Masonry)	none	ASTM C1248
Service Temperature Range (after cure)	-55°F to +250°F	
Cure Time (1/4" or 6 mm deep section) @ 75°F (24°C) 50% RH	3-4 days	
Full Cure (most common bead sizes)	10-14 days	

(1) Average value. Actual value may vary.

Applicable Standards

GE Paintable SCS7000 weatherproofing 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

Suggested References

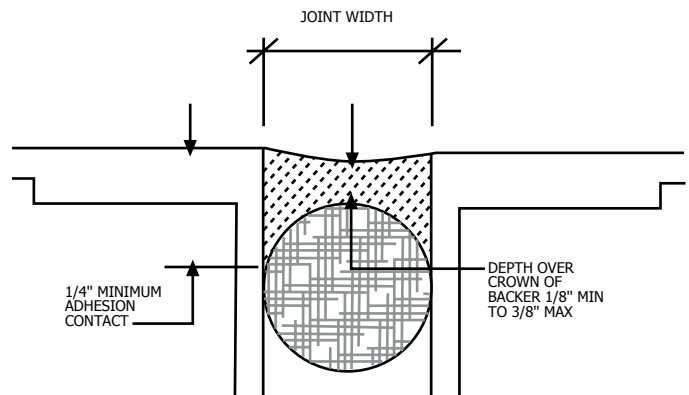
In addition to the guidelines provided on this datasheet, Momentive Performance Materials¹ recommends that designers and users of Paintable SCS7000 weathersealant familiarize themselves with the latest editions of following industry guidelines and best practices:

- 1.) ASTM C1193 Standard Guide for Use of Joint Sealants.
- 2.) ASTM C1472 Standard Guide for Calculating Movement and Other Effects When Establishing Sealant Joint Width.
- 3.) SWR Institute's Applying Liquid Sealants Applicator Training Program.

Joint Width - When using GE Paintable SCS7000 weathersealant, the designed joint width must be at least twice the total anticipated joint movement.

Figure 1 illustrates the general guidelines for installation of GE Paintable SCS7000 weathersealant into a typical butt joint configuration,

- 1.) The recommended sealant profile is an hourglass shape with the depth of the sealant over the crown of the backer rod to be no thinner than 1/4" and no thicker than 1/2", and
- 2.) A minimum of 1/4" of adhesive bonding contact must be made to all surfaces to which the sealant is intended to adhere.



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Installation

Sealants may not adhere or maintain long-term adhesion to substrates if the surface is not prepared and cleaned properly before sealant application. Using proper materials and following prescribed surface preparation and cleaning procedures is vital for sealant adhesion. IN ALL CASES IT IS IMPORTANT TO CONFIRM THE ACCEPTIBILITY OF EACH SEALANT-SUBSTRATE COMBINATION WITH A LAB OR SITE ADHESION TEST PRIOR TO PROCEEDING WITH PROJECT INSTALLATION. Momentive Performance Materials can provide lab and field adhesion testing information and suggestions to user upon request.

Surface Preparation

Porous Materials (Concrete, Masonry, Brick, Stone, etc.)

- Joints must be clean, dry and sound prior to application of the sealant. All contaminants, impurities, or other adhesion inhibitors (such as moisture/frost, oils, concrete form release agents, old sealants, asphalt and other surface treatments, etc.) must be removed from the surfaces to which the sealant is intended to adhere.
- Clean where necessary by wire brush or mechanical abrading to provide a stable clean surface for sealant application.
- Remove dust and other remaining loose particles with a soft bristle brush or by using an oil-free air blow.
- Polished stone surfaces and smooth sawn edges can be cleaned using a solvent dampened rag (allow sufficient time for solvent to evaporate prior to application of the sealant). When handling solvents, refer to manufacturer's MSDS for information on handling, safety and personal protective equipment.
- Since porous materials can absorb and retain moisture, it is important to confirm that substrates are dry prior to application of the sealant.

Non-Porous Materials (Glass, Metals, Plastics, Ceramics, etc.)

- Clean by using a two-rag wipe technique → wet one rag with solvent and wipe the surface with it, then use the second rag to wipe the wet solvent from the surface BEFORE it evaporates (allowing the solvent to dry on the surface without immediately wiping with a second cloth can negate the cleaning procedure because the contaminants may simply be re-deposited as the solvent dries). In all cases where used, solvents should be wiped dry with a clean, white cloth or other lint-free wiping materials.
- Isopropyl Alcohol (IPA) is a commonly-used solvent and has proven useful for most non-porous substrates encountered in architectural construction applications. Xylene and Toluene have also been found useful on many substrates. When handling solvents, refer to manufacturer's MSDS for information on handling, safety and personal protective equipment.
- Difficult or nearly impossible to see on a joint substrate, frost is likely to develop on substrates when temperatures drop near the freezing point. Since frost and moisture will interfere with proper sealant adhesion, it is important to confirm that substrates are dry prior to application of the sealant.

Masking

The use of masking can be used when desired to ensure a neat job and to protect adjoining surfaces from over-application of sealant. Masking should be removed immediately after tooling the sealant and before the sealant begins to skin over (tooling time).

Sealant Application

- Apply sealant in a continuous operation, horizontally in one direction and vertically from the bottom to the top of the joint opening, applying a positive pressure adequate to properly fill and seal the joint width.
- 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.
- Tooling agents such as water, soap, or detergent solutions are not recommended.
- Sealant application is not recommended when the temperature is below 40°F (4°C) or if frost or moisture is present on the surfaces to be sealed.
- Application of GE SilPruf* MS SCS7000 weatherproofing sealant is not recommended to surfaces above 122°F (50°C).

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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 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.momentive.com or, upon request, from any Momentive Performance Materials¹ representative. Use of other materials in conjunction with Momentive Performance Materials¹ products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Emergency Service

Momentive Performance Materials¹ maintains an around-the-clock emergency service for its products. The American Chemistry Council (CHEMTREC), Transport Canada (CANUTEC), and the Chemical Emergency Agency Service also maintain an around-the-clock emergency service for all chemical products:

Location	GE Branded Products	All Chemical Products
Mainland U.S., Puerto Rico	518.233.2500	CHEMTREC: 800.424.9300
Alaska, Hawaii	518.233.2500	CHEMTREC: 800.424.9300
Canada	518.233.2500	CANUTEC: 613.996.6666 (collect) or CHEMTREC: 800.424.9300
Europe, Middle East, Africa	+32.(0)14.58.45.45 (Belgium)	CHEMTREC: +1-703.527.3887 (collect)
Latin America, Asia/Pacific, all other locations worldwide	+518.233.2500	CHEMTREC: +1-703.527.3887 (collect)
At sea	Radio U.S. Coast Guard, which can directly contact Momentive Performance Materials ¹ at 518.233.2500	CHEMTREC: 800.424.9300

DO NOT WAIT. Phone if in doubt. You will be referred to a specialist for advice.

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161-020-10E-GL

CDS: DataSCS7000 (09/08)