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Contractors-N SCS1800

silicone glazing sealant

Product Description

Contractors-N SCS1800 silicone glazing sealant is a one-part, neutral cure silicone sealant offering excellent adhesion, weatherability and elasticity for general glazing, sealing and backbedding applications.

Typical Performance Properties

- **Silicone Durability** - Cured silicone rubber exhibits excellent long-term resistance to natural weathering, including: ultraviolet radiation, high and low temperatures and rain and snow, with negligible change in elasticity.
- **Primerless Adhesion** - May be considered a candidate for use with numerous construction-related materials, including: glass, vinyl, numerous plastics, treated and untreated wood, fluoropolymer and powder coated paints, coated aluminum, ceramic and porcelain materials. Some finishes or substrates may require a primer.
- **±50% Movement Capacity** - Can accommodate 50% movement in both extension and compression.
- **Easy Repairs** - Should glass breakage occur, the traditional silicone rubber properties of Contractors-N SCS1800 sealant allows for frames or components to be easily deglazed as would be expected from silicone materials.
- **Product Chemistry** - Neutral cure.

Momentive Performance Materials is an exclusive licensee of General Electric. The company provides versatile materials as the starting point for our creative approach to ideas that help enable new developments across hundreds of industrial and consumer applications. We are helping cus-

tomers 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

- Contractors-N SCS1800 sealant may be used as a perimeter weatherseal for field glazing, window installation and general purpose sealing applications.
- Contractors-N SCS1800 sealant may be used for in-shop window fabrication as a backbedding bead or for cap, toe and heel bead applications.

Packaging

Contractors-N SCS1800 sealant is available in 10.1 fl. oz. (299 ml) plastic caulking cartridges with removable nozzles and in 55 gallon steel drums (450.0 lbs. / 204.3 kg) with a polyethylene bag liner.

Colors

Contractors-N SCS1800 sealant is available in the following colors.

Grade	Color
SCS1800.01	Translucent
SCS1800.02	White
SCS1800.03	Black

Limitations

Contractors-N SCS1800 sealant 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).
- For adhesion on bare metals or surfaces subject to corrosion (i.e., mill aluminum, bare steel, etc.).

Contractors-N SCS1800 sealant should not be applied or used:

- As the structural adhesive in structural glazing applications.
- On wet, damp, frozen or contaminated surfaces.
- In cavities or designs where the cure depth exceeds 1/2".

Technical Services

Additional technical information or literature may be available by contacting Momentive Performance Materials¹ at 1-800-255-8886. Laboratory facilities and application engineering are available upon request from Momentive Performance Materials¹.

Applicable Standards

Contractors-N SCS1800 sealant meets or exceeds the requirements of the following standards and/or specifications:

American Society for Testing & Materials International

- ASTM C920 Standard Specification for Elastomeric Joint Sealants; Type S, Grade NS, Class 50, Use A, G, O

American Architectural Manufacturers Association

- AAMA 802.3-05 Ductile Back Bedding Compound, Type I
- AAMA 805.2-05 Bonding Type Bedding Compound, Group C

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Specifications

Typical property values of SCS1800 silicone glazing 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	Test Method
Consistency	Paste	N/A
Polymer	100% Silicone	N/A
VOC	32 g/l	WPSTM C1454
Work Life (tooling time)	6 minutes (@ 73°F, 50% RH)	N/A
Tack Free Time (@ 73°F, 50% RH)	30 minutes	ASTM C679
Sag/Slump	0.1" max.	ASTM D2202

Typical Properties – Cured (after cure of 21 Days at 73°F (23°C) & 50% Relative Humidity)

Property	Value ⁽¹⁾	Test Method
Hardness, Durometer (Type A Indentor)	35	ASTM D2240
Ultimate Tensile Strength	200 psi (1.57 MPa)	ASTM D412
Ultimate Elongation	520%	ASTM D412
Joint Movement Capability	±50%	ASTM C719
Service Temperature Range (after cure)	-55°F to +300°F (-48°C to 149°C)	N/A
Cure Time (¹ / ₄ " or 6 mm deep section) @ 75°F (24°C) 50% RH	2-3 days	N/A

(1) Average value. Actual value may vary.

Installation

IN ALL APPLICATIONS IT IS IMPORTANT TO CONFIRM THE ACCEPTIBILITY OF EACH SEALANT-SUBSTRATE COMBINATION WITH AN ADHESION TEST PRIOR TO PROCEEDING WITH USE.

Surface Preparation

- Contractors-N SCS1800 sealant has been formulated to develop adhesion to most materials commonly used in the manufacturing of commercial glazing constructions including: glass, vinyl extrusions, fluoropolymer, acrylic, and polyester paints, powder coated aluminum, and numerous plastic materials. Sealants may not adhere to these substrates or less than optimal adhesion may result if the surface is contaminated. Foreign materials such as, but not limited to, dirt, dust, oils and water and other contaminants particular to certain substrates including machine oils, water repellants, lubricants, waxes on painted surfaces, salt deposition on anodized surfaces can and may interfere with development of adhesion.
- Momentive Performance Materials can provide, upon request, laboratory testing services to evaluate the adhesion and compatibility of its sealants to submitted substrates. This testing can provide information on adhesive bonding quality to individual substrates and direction to the user on how adhesion may be improved through modification of the substrate surface properties by special cleaning and/or priming procedures. Momentive Performance Materials can also provide upon request technical information including specific cleaning procedures and priming recommendations

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Surface Preparation (continued)

for the customer to evaluate. Momentive Performance Materials does not provide joint design services.

- Users of this material are strongly advised to conduct their own testing to determine if the adhesion to the desired substrate is satisfactory for their needs. It is also recommended that the user conduct periodic quality control testing on their substrates and sealant during the course of using them in manufacturing operations to maintain a continued assurance that substrate, sealant or other conditions that could affect adhesion have not changed and that adhesion requirements are being met.

Sealant Application

- Begin by installing backup material for joint or joint filler, setting blocks, spacer shims and tapes as needed.
- In a continuous operation, apply Contractors-N SCS1800 sealant horizontally in one direction and vertically from the bottom to the top of the joint opening.
- Apply the sealant with a positive pressure by pushing the bead ahead of the nozzle and making sure that the entire cavity is filled sans air pockets or voids.
- Tooling should be done neatly, forcing the sealant into contact with the sides of the joint or cavity, thus helping to eliminate any internal voids and assuring good substrate contact.
- Due to the smooth consistency of Contractors-N SCS1800 sealant tooling agents such as water, soap or detergent solutions are not necessary or recommended. Dry tooling is recommended.
- For cap bead glazing the sealant applied to the sill should be tooled in such a fashion to prevent pooling of precipitation and cleaning solution.
- Sealant should only be applied to surfaces that are clean, dry and free of frost.

Cleaning of Excess Sealant

- For glass, metal, and plastic surfaces uncured excess material can be removed using a solvent. Use care when using solvents on plastic materials as some solvents can soften some plastics.
- For glass, metal, and plastic surfaces cured excess material can be removed using a blade by scraping or cutting.
- If excess material unintentionally contacts the surfaces of porous materials, the sealant is best allowed to progress through the initial cure or set-up and then mechanically removed by abrasion or other suitable means.

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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.

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.

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 (collect)	CHEMTREC: 800.424.9300
Canada	518.233.2500 (collect)	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 at 800.424.9300

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

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