



Contractors SCS1001

Contractors SCS1000® Silicone Sealant

Product Description

Contractors SCS1000 series silicone adhesive sealants are one-part sealants that offer excellent adhesion, weatherability and elasticity for general glazing and sealing applications.

Contractors SCS1000 sealant is available in 4 colors plus translucent:

<i>Product Designation</i>	<i>Color</i>
SCS 1001	Translucent
SCS1002	White
SCS1003	Black
SCS1009	Aluminum
SCS1097	Bronze

Key Performance Properties

BASIC USES

General Glazing: Glass, plastic, channel or stop.

Curtainwall Sealing: Glass, metal, granite and plastic.

General Sealing: Sheet metal, skylights, ventilators, air conditioning, metal/plastic signs, glass block structures, bedding of marine hardware.

LIMITATIONS

Not For: Structural Glazing

Not For: Bathrooms – Use SCS1700 Series Sealant

Not For: Concrete, Marble, Limestone, Lead, Zinc, or Below Water

Contractors SCS1000 series silicone sealant should not be applied to reflecting, high gloss, or light-colored surfaces where aesthetics are critical, until adequate on-site sealant, surface and ambient atmospheric tests simulating building design are conducted to ascertain material compatibility and migration to adjacent surfaces under actual use conditions.

Contractors SCS1000 silicone sealant is not recommended for mirror installations without the approval of the mirror manufacturer.

Typical Product Data

Properties	Value
Hardness (Shore A)	28
Ultimate Tensile Strength (At Maximum Elongation)	290 psi
Dynamic Movement and Capability	±25%
Tack-Free Time	30 min.
Curing Time	5 to 7 days ¼' section at 23°C (75°F)
Sag or Slump	0.1" max.

TECHNICAL DATA

Contractors SCS1000 silicone sealants exhibit typical silicone sealant resistance to the environments encountered in general purpose glazing and sealing applications. These environments include ultraviolet radiation, ozone, high and low temperature extremes and hydrolytic stability (high temperature and humidity).

TECHNICAL SERVICES

Complete technical information and literature is available from GE Silicones Technical Centers. Laboratory facilities and application engineering are available upon request from GE Silicones. Any technical advice furnished by the Company, or any representative of the Company, concerning any use or application of any sealant is believed to be reliable but the Company makes no warranty, express or implied, of any use or application for which such advice is furnished.

Specifications

Typical product data values should not be used as specifications. Assistance and specifications are available by contacting GE Silicones at 800/255-8886.

APPLICABLE STANDARDS

Contact GE Quality Assurance for details on certifications to: Federal Specifications TT-S-001543A • ASTM-C 920-Type-S, NS, Class 25, USE NT G, A & O. • TT-S-00230C.

USDA STATUS

GE has on file documentation from USDA which states that Contractors SCS1001, SCS1002, SCS1003 and SCS1009 sealants are chemically acceptable for use on structural surfaces in official establishments operating under the Federal Meat and Poultry Inspection Program. Contractors SCS1097 does not have USDA approval. For further information,

contact GE Silicones Product Regulatory Compliance. The final granting of authorization for the proposed use of such compounds is the responsibility of the inspector in charge of the official plant. Technical assistance will be provided by the Product Safety Branch of USDA upon request.

FDA STATUS

The following sealants may be used in food contact applications for repeated use under FDA Regulation 21 CFR 175.105 “Adhesives” and 175.300 “Resinous and Polymeric Coatings”: SCS1001, SCS1002, SCS1003, SCS1009 and SCS1097.

The use of these adhesive sealants is subject to the following conditions:

- The adhesive sealant is applied in accordance with Good Manufacturing Practice at a thickness not to exceed 6 mm (¼ in.) from an exposed edge.
- As a continuous film between joints acting as a functional barrier between the food and the substrate (area underneath the joint).
- The adhesive sealant must be cured for a minimum of 14 days at 25°C (77°F) and 50% R.H.
- The operating temperature of the adhesive sealant after cure must not exceed 177°C (350°F).

All previously mentioned adhesive sealants must be evaluated to determine bond strength for each specific application. If greater adhesion is required, the evaluation of SS4044 (clear) primer is recommended. SS4044 primer may be used in repeated contact with food under 21 CFR 175.300, “Resinous and Polymeric Coatings”. SS4179 does comply with FDA regulation.

NSF STATUS

NSF International lists SCS1001, SCS1002, SCS1003 and SCS1009 adhesive sealants under NSF International Standard No. F-51 “Plastic Materials and Components for Use in Food Equipment” as satisfactory for use on splash zone surfaces.

Instructions for Use

LINEAR FEET PER GALLON OF GE CONTRACTORS SCS1000 SERIES SILICONE SEALANT FOR VARIOUS JOINT SIZES							
WIDTH, INCHES							
	1/3	1/4	3/8	1/2	5/8	3/4	<i>I</i>
1/8	1232	616	411	307	246	205	154
3/16	—	411	275	205	164	137	103

1/4	—	307	205	154	123	103	77
3/8	—	—	137	103	82	68	51

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JOINT DESIGN AND DIMENSIONS

Silicone sealants should be no thicker than 3/8" and no thinner than 1/8". The use of a bond breaker prevents three-sided adhesion. Polyethylene or polyurethane foam rods are recommended as back-up materials. If the joint is too shallow to allow foam rod, use a bond breaker tape.

The width of building expansion joints varies because of seasonal and daily changes in temperature. The designed joint width must be at least four times the expected thermal movement.

INSTALLATION

SURFACE PREPARATION: Sealant bonding surfaces should be sound, clean, dry and free of contamination. Use isopropyl alcohol wipe to clean surface.

PRIMERS: On glass and glazed surfaces, primers are not required. SS4179 primer may be required on plastics and other construction materials for maximum adhesion. It is recommended that a bead of sealant be applied to the substrate material to test adhesion prior to general job use.

MASKING: Areas adjacent to joints should be masked, preferably before priming, if it is necessary to obtain a neat sealant line.

METHOD OF APPLICATION

Contractors SCS1000 sealant can be applied directly from plastic caulking cartridges with a hand gun or pressure equipment. Contractors SCS1000 silicone sealant is supplied as a ready-to-use, one-part sealant with a lightweight consistency. This consistency remains relatively unchanged over a temperature range of -35°F to 140°F (-37°C to 60°C), allowing the sealant to be easily gunned in any season, to clean, dry, frost-free surfaces. While Contractors SCS1000 is gunnable at temperatures as low as -35°F, the cure rate will be very slow below 40°F. Additionally, the sealant may not cure to its design properties if cured at temperatures over 100°F.

PACKAGING

Contractors N SCS1800 sealant is available in 10.1 oz. Cartridges, 5-gallon pails, and 55-gallon drums. Pricing of pails and drums is based on weight of material contained.

Handling and Safety

Material Safety Data Sheets are available upon request from GE Silicones. Similar information for solvents and other chemicals used with GE products should be obtained from your suppliers. When solvents are used, proper safety precautions must be observed.

Maximum recommended pressure for air operated guns with caulking cartridges is 45 psi (3.2 kgs/cm²).

Storage and Warranty Period

The warranty period is 24 months from date of shipment from GE Silicones if stored in the original unopened container at 27°C (80°F).

Availability

Contractors SCS1000 series silicone adhesive sealants may be ordered from GE Silicones, Waterford, New York 12188, the Sales Office nearest you or from an authorized GE silicone product distributor. For availability and

cost information, consult your nearest GE Silicones sales office at 1-800-255-8886.

**Government
Requirement**

Prior to considering use of a GE Silicones' product in fulfilling any government requirement, please contact the Government and Trade Compliance office at 413-4348-4624.

CDS1000

LEGAL DISCLAIMER

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