

SS4044P, SS4004P, SS4179 & SCP3195P construction sealant primers

Product Description

GE's branded construction sealant primers are designed to help promote strong and consistent adhesion of GE branded construction sealants to surfaces that may be difficult to bond to. These primers are supplied ready-to-use (*i.e.*, no mixing required) as an easily pourable solution and are intended for application to clean, dry, frost-free, sound surfaces just prior to sealant installation.

Typical Performance Properties

- **SS4044P Primer** - enhances adhesion to: anodized & painted aluminum, mill & conversion-coated aluminum, metals & galvanized metals, copper, brass, painted & stainless steel, brick, concrete, stone, terra cotta, unglazed ceramics, plastics and wood. May prove useful on other items as well.
- **SS4004P Primer** - same as SS4044P except tinted pink for confirmation of coverage on light-colored substrates. SS4044P & SS4004P may be used interchangeably.
- **SS4179 Primer** - enhances adhesion to: various factory applied paints including; fluoropolymer, acrylics, alkyds, powder coats, etc., most plastics, conversion-coated & painted aluminum, copper and brass and, SS4179 is also effective on some porous substrates; testing is recommended. SS4179 primer may be suitable for food contact applications where FDA regulations apply. Reference GE bulletin (4319) "Food Contact Applications Silicone Rubber Compounds", for specific regulations, limitations and conditions of use. May prove useful on other items as well.
- **SCP3195P Primer** - A lower VOC formulation designed to enhance adhesion to: EIFS, anodized & painted aluminum, mill & conversion-coated aluminum, metals & galvanized metals, copper, brass, painted & stainless steel, brick, concrete, stone, terra cotta, plastics and wood. May prove useful on other items as well.
- **Easy Application** - A single application will typically suffice and is applied by brushing or wiping. Wiping off is not necessary. For smooth substrates (glass, metals, etc.) a wipe application is suggested. For porous and irregular materials (rough brick, non-smooth stone, etc.) a brush application is suggested.

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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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Typical Performance Properties (continued)

- **Short Dry Time** - most typical applications require only a few minutes of drying time prior to application of the sealant (drying time is variable and dependent upon local conditions at point of use). See table on page 3 for drying times.
- **Product Versatility** - these primers are candidates for use with the following GE construction silicone product lines: UltraGlaze*, SilPruf*, RapidStrength*, SilGlaze II*, Sanitary*, SWS*, Contractors*, Construction* & all GE Insulating Glass (IGS) products. Consult Momentive Performance Materials¹ Technical Services for sealant-primer-substrate recommendations.

Basic Uses

- GE's branded construction primers are designed to enhance adhesion of GE's branded construction products to difficult-to-bond surfaces and substrates.



Packaging

GE's construction primers are available in 16.0 fl. oz. (473 ml) pint-sized containers and 1 gallon (3.79 L) pail containers. Available in 55 gallon drums by special order.

Limitations

- SS4044P, SS4004P & SCP3195P primers are not recommended for use in food contact applications.
- SS4044P, SS4004P, SS4179 & SCP3195P primers are not recommended for use on wet, damp, frozen or contaminated surfaces.
- SS4044P, SS4004P, SS4179 & SCP3195P primers are not recommended to be applied to paints or plastic materials that are adversely effected by the solvents in the primer. Trial applications are recommended to verify chemical compatibility with surfaces.

Precautions

- These primers can be visible on substrates if inadvertently over-applied onto adjacent joint surfaces. See application section pertaining to masking.
- Care should be taken with some plastic substrates such as polystyrene, acrylics or polycarbonates, which can become slightly tacky when excessive primer is applied. This can be minimized or eliminated if the primer is applied with a single, continuous stroke.

Technical Services

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

Specifications

Typical property values of these primers as supplied as set forth in the tables on page 3. Typical product data values should not be used as specifications. Assistance with specifications is available by contacting Momentive Performance Materials¹ at 1-800-255-8886.

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Typical Properties - Supplied

Property	SS4004P	SS4044P	SCP3195P	SS4179
Color	Pink	Clear / Amber	Clear / Amber	Clear / Colorless
Dry Time; ⁽¹⁾ colder environment, minutes	5-15	5-15	20-25	5-10
Dry Time; ⁽¹⁾ warmer environment, minutes	3-5	3-5	5-10	3-5
Solids Content, %	15	15	3	6
Specific Gravity	0.80	0.80	1.22	0.91
VOC, ⁽²⁾ g/L	636	624	320	859

(1) Drying times shown are typical, however, these times may be longer or shorter depending upon local conditions at point of use. It is suggested to confirm that the primer is dry to the touch prior to application of the sealant.

(2) Excluding water & exempts

Suggested References

In addition to the guidelines provided on this datasheet, Momentive Performance Materials¹ recommends that designers and users of GE branded construction primers familiarize themselves with the latest editions of following industry guidelines and best practices as it relates to priming:

- 1) ASTM C1193 Standard Guide for Use of Joint Sealants.
- 2) ASTM C1481 Standard Guide for Use of Joint Sealants with Exterior Insulation & Finish Systems (EIFS).
- 4) ASTM C1401 Standard Guide for Structural Sealant Glazing
- 5) SWR Institute's Applying Liquid Sealants Applicator Training Program.

Installation

- **CAUTION:** Primers contain solvents. When handling primer, refer to product specific MSDS for information on handling, safety and personal protective equipment.
- **IMPORTANT:** In all cases, the acceptability of each sealant-primer-substrate combination must be confirmed with a lab or site adhesion test prior to proceeding with project installation. Momentive Performance Materials¹ can provide lab and field adhesion testing information and suggestions to user upon request.

Surface Preparation

- See specific sealant product datasheets for surface preparation guidelines for use in conjunction with these primers.
- **NOTE: THE USE OF A PRIMER IS NOT TO BE MISTAKEN AS A SUBSTITUTE FOR SURFACE PREPARATION.**

Primer Application

- The typical application method for these primers is by brushing or wiping. Spraying or dipping of parts is also possible although these two methods sometimes produce erratic results and non-uniform applications (which may not produce uniform adhesion). A single thin uniform application of primer usually provides the strongest bond. Care should be taken so as not to slather or excessively apply the primer onto substrates such that drips or build-ups occur as this can produce poor or inconsistent adhesion.
- For solid smooth substrates (plastics, metals, etc.) a wipe application is suggested. When wiping, apply a thin film of primer to the surface with a clean lint-free cloth or other appropriate wiping material. The application should be in one continuous uniform stroke. Change to a clean rag frequently as contaminants build up or rag becomes dirty.
- For porous and irregular materials (concrete, rough brick, non-smooth stone, etc.) a brush application is suggested. When brushing, it is suggested to use only natural bristle brushes as these are known to provide sufficient results. Brushes with Nylon® or synthetic bristles should be avoided unless the bristles are known to be resistant to the solvent in the primer (synthetic bristles could become dissolved by solvent in the primer which can then contaminate the primer solution; possibly affecting adhesion).
- On irregular porous surfaces, a second coat of primer may be helpful and a site test using 1 coat vs. 2 coats will show which offers the best performance.
- Confine primer application to areas of joint-sealant bond; do not allow spillage or migration onto adjoining surfaces. See section on masking.
- Under most conditions, a drying time of 5-10 minutes is sufficient prior to application of the silicone adhesive sealant. Under colder temperatures drying time may increase somewhat but is rarely longer than 25 minutes. For all of these silicone primers sufficient humidity must be available for proper drying. Lower humidity can result in longer drying times. Field tests are suggested at each job or application site to find drying time under current conditions. Allow at least the current drying time in minutes between coats if a second coat is desired.
- Primers may be left to dry for up to 24 hours before application of the sealant without loss of bonding effects, however, the primed surface should be covered to prevent dirt or contaminant pickup.

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Masking

The use of masking tape is recommended where appropriate to ensure a neat job and to protect adjoining surfaces from over-application of primer. Primer that has been inadvertently over-applied onto adjacent surfaces can be extremely difficult to remove, especially on rough or porous substrates.

Storage Conditions

- GE branded construction primers should be stored in the original unopened container at 80°F (27°C) or lower. Lower storage temperatures can help maintain product stability.
- It is important to keep the container closed when not in use since prolonged exposure to moisture can result in gel formation or early product degradation.
- A slight white precipitate may form in storage. This should not impair performance of the primer. Do not shake the container prior to use, but carefully decant the clear primer from the top of the container as needed. A laboratory check of adhesion is suggested prior to product use.
- All users of this material are recommended to obtain and retain any invoices or other documentation relating to delivery and to manage their inventory on a FIRST IN / FIRST OUT basis. Applicable warranty information can be obtained from Momentive Performance Materials,¹ Waterford, NY, the sales office nearest to you, or an authorized GE sealants' product distributor.

Availability

Information on ordering can be obtained from Momentive Performance Materials,¹ Waterford, NY, the sales office nearest to you, or an authorized GE sealants' product distributor. For information regarding cost, contact your local distributor or territory manager. Our Customer Service number is: 877-943-7325.

Government Requirement

Prior to considering use of a GE sealants' product in fulfilling any government requirement, please contact the Government and Trade Compliance office.

Patent Status

Protected by US patent 6,231,990 assigned to General Electric Company. No license granted under any other US patents.

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.gesilicones.com or, upon request, from any Momentive Performance Materials¹ representative. Use of other materials in conjunction with GE 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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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.

Principal Locations

Regional Information

	Phone	Fax
North America		
World Headquarters 187 Danbury Road Wilton, CT 06897, USA	800.295.2392	607.754.7517
Latin America		
Rodovia Eng. Constâncio Cintra, Km 78,5 Itatiba, SP – 13255-700 Brazil	+ 55.11.4534.9650	+ 55.11.4534.9660
Europe, Middle East, Africa and India		
Momentive Performance Materials Leverkusen Germany	00.800.4321.1000	
Pacific		
Momentive Performance Materials 6-2-31 Roppongi Minato-ku Tokyo 106-8550 Japan	+ 81.3.3479.5361	+ 81.3.3479.5391
Customer Service Centers		
North America Charleston, WV 25303, USA	Specialty Fluids 800.523.5862	304.746.1654
	UA, Silanes, Resins, and Specialties 800.334.4674	304.746.1623
	RTV Products-Elastomers 800.332.3390	304.746.1623
	Sealants and Adhesives and Construction 877.943.7325	304.746.1654
Canada Toronto, Canada	Within Canada Outside Canada 800.668.4644 905.858.5187	905.858.6687
Latin America		
Argentina and Chile	+ 54.23.2055.2857	+ 54.23.2055.2811
Brazil	+ 55.11.4534.9650	+ 55.11.4534.9660
Mexico and Central America	+ 52.55.5257.6042	+ 52.55.5257.6094
Venezuela, Ecuador, Peru, Colombia, and Caribbean	+ 58.212.902.5167	+ 58.212.902.5158
Europe, Middle East, Africa and India		
Momentive Performance Materials	00.800.4321.1000	
Pacific		
Japan	+ 81.276.20.6182	
China	+ 86.800.820.0202	
Korea	+ 82.2.530.6400	
Singapore	+ 65.6220.7022	
Worldwide Hotline	800.295.2392	+ 607.786.8131
Worldwide Web		+ 607.754.7517
		gesilicones.com

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