SS4179 Primer

Silicone Primer for use with One and Two Component RTV Silicone Adhesive Sealants

SS4179 primer is formulated for use with GE Silicones RTV silicone rubber adhesive sealants. GE Silicones one-component products offer primer less adhesion to many substrates. Primer is used to help promote adhesion to difficult-to-bond substrates. For most GE Silicones two-component products, a primer is required when an adhesive bond is needed between the silicone rubber compound and a non-silicone surface (see table below). SS 4179 is a one-component product requiring no mixing and is supplied ready-to-use as easily pourable solvent solutions.

SS4179 primer helps promote adhesion of GE Silicones sealant to difficult-to-bond plastic substrates including:

- acrytics
- acrylonitrile-butadiene-styrene (ABS)
- cellulosics (cellulose acetate)
- high-impact styrene
- polyphenylene oxide resins (PPO®)
- polysulfones
- polyesters
- rigid polyvinylchloride (PVC)
- thermoplastic resins (Noryl®)

Key Performance Properties

- One-component - no mixing
- Simple handling procedures and equipment for easy use and low processing cost.
- Dry at room temperature and ambient humidity conditions
- Helps promote adhesion to many substrates
- SS4179 primer is a transparent to preserve visibility of colorless products.
Typical product data values should not be used as specifications. Assistance and specifications are available by contacting GE Silicones at 800/255-8886.

Surface Preparation

All surfaces to be bonded should first be thoroughly cleaned. A cloth or industrial tissue saturated with naphtha or methyl ethyl ketone (MEK) may be used to remove dirt, oil or grease from non-plastic surfaces. Isopropanol is a commonly used solvent for preparation of plastic surfaces to avoid crazing of the substrate. When practical, surfaces should be wiped dry before applying the primer coating. Abrasion of the surface will also often improve adhesion.

When solvents are used as described, proper safety precautions must be observed.

Priming Procedure

Primer may be applied by brushing, wiping or dipping. (Spraying may sometimes produce erratic results.) A thin uniform primer coating of approximately 0.01 to 0.02 mm (0.5mil) thickness usually provides the strongest bond. Care should be taken with plastic substrates such as polystyrene or polycarbonates (LEXAN®) which may tend to craze or become sticky when primer is applied. Crazing can be minimized if the primer is applied with a single, continuous stroke.

SS4179 primer must be allowed to air dry for at least 15 minutes at room temperature before applying the RTV silicone rubber adhesive sealant.

For SS4179 silicone primer sufficient humidity must be available for proper drying. Do not remove or contaminate such film prior to application of the RTV silicone rubber compound.

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 must be covered to prevent dirt or contaminant pick-up.
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.

The warranty period for SS4179 is 6 months from date of shipment from GE Silicones if stored in the original unopened container below 140°F (60°C). Containers must be kept tightly closed when not in use.

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.

**FDA STATUS**

SS4179 and primer can be used in 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.

Products may be ordered from GE Silicones, Waterford, NY 12188, the GE Silicones Sales office nearest you or an authorized GE silicone product distributor.

Prior to considering use of a GE Silicones' product in fulfilling any Government requirement, please contact the Government and Trade Compliance office at 413-448-4624.

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