

The following specification text has been prepared to assist design professionals in the preparation of a specification section incorporating GE Silicones SSG4600 UltraGlaze™ silicone sealer for in-shop structural glazing applications.

SSG4600 has superb strength, durability, and flexibility.

Utilize the following paragraphs to insert text into the following Specification Sections or similarly titled section governing this work:

08 80 00 - Glazing

Blue text includes instructions on how to use this document. Black text is intended for insertion into project specifications. Red text requires input by the user.

For assistance on the use of the products in this section, contact GE Silicones Commercial Customer Service at 877-943-7325, by email at GECSTMKTG@momentive.com, or visit their website at www.gesilicones.com.

PART 1 - GENERAL

SUBMITTALS

Include the following for submission of product data and samples.

- A. Action Submittals:
 - 1. Product Data: Manufacturer's descriptive data and application instructions.
 - 2. Samples: Sealant samples [showing available colors.] [in specified color.]

PART 2 - PRODUCTS

MATERIALS

- A. Joint Sealant:
 - 1. Source: SSG4600 UltraGlaze™ by GE Silicones (www.gesilicones.com); [substitutions not permitted.] [refer to Division 01 for substitution procedures.]
 - 2. Description: Two component, neutral cure, 100 percent silicone sealant/adhesive.
 - 3. Physical characteristics:
 - a. VOC content: 21 g/l, mixed at 12:1 weight.
 - b. Hardness: Plus or minus 40 durometer, Type A indentor, tested to ASTM D2240.
 - c. Ultimate tensile strength: 192 PSI (1.3 MPa), tested to ASTM C1135.
 - d. Ultimate elongation: 256 percent, tested to ASTM C1135.
 - e. Tensile adhesion: 104 PSI (0.72 MPA), tested to ASTM C1135 after 4 hours.
 - f. Tear strength, die B: 64 PPI, tested to ASTM D624.
 - g. Shear strength: 124 PSI (0.85 MPa), tested to ASTM C961.
 - h. Resistance to tearing: Category 1, greater than 95 percent, tested to ETAG 002 / ASTM C1681.
 - i. Resistance to water immersion: No adhesion loss, tested to ISO 10591.
 - j. Accelerated weathering: 50,000 hours: Negligible property change, tested to ASTM C1135 and D2240.
 - k. Heat resistance: 300 degrees F (149 degrees C).
 - l. Thermal conductivity: 0.30 W/m-k (cal/cm-s degree C), tested to ASTM

- E1461.
- m. Cyclical movement capability: Plus or minus 25 percent, tested to ASTM C719.
- 4. Color: [Black.] [Medium Gray.] [To be selected from manufacturer's standards.]

ACCESSORIES

SSG4600 sealant attains primerless adhesion to many commonly encountered construction materials. However, some materials with variable surface characteristics may require the use of a primer to help obtain durable long-term adhesion. Prior to use, trial applications should be made to check adhesion to the specific materials to be used on the project.

A primer is always required on exterior insulation and finish system (EIFS) surfaces.

- A. Primer: Type recommended by joint sealer manufacturer for specific substrate to receive joint sealer.

PART 3 - EXECUTION

PREPARATION

- A. Prepare surfaces to receive joint sealers in accordance with manufacturer's instructions.
- B. Ensure that joints are clean, dry, and sound prior to application of joint sealer.
- C. Perform cleaning within 1 hour of when sealant is to be applied.
- D. Clean surfaces by wiping with solvent applied with clean rags, then remove solvent with clean rags before it dries.
- E. Mask adjacent surfaces using pressure-sensitive tape.

INSTALLATION

- A. Apply sealant in accordance with manufacturer's instructions.
- B. Apply sealant in continuous operation.
- C. Apply positive pressure adequate to fill and seal cavity.
- D. Tool sealant to force material into contact with sides of joint.
- E. Tool sealant at sill so that precipitation and cleaning solutions will not pool.

CLEANING

- A. Remove masking and excess sealant from adjacent surfaces immediately after application.