

The following specification text has been prepared to assist design professionals in the preparation of a specification section incorporating UltraGlaze™ SSG4600 structural silicone glazing adhesive, used for structural glazing applications including fabrication and shop glazing of structurally glazed curtain wall systems.

Incorporate language from this specification into the Glazing Specification. Design professional is responsible for editing information to meet their Project requirements and coordinate with other specifications sections and Drawings.

SECTION 08 80 00

GLAZING

Editor notes are included in hidden text to assist with product attributes and performance. As this is not a stand-alone specification section, insert final text into the following or similar relevant product Section:

08 80 00 – Glazing

UltraGlaze™ SSG4600 has superb strength, tear resistance, durability, and flexibility.

UltraGlaze™ SSG4600 is not recommended for water immersion applications.

For assistance on the use of the products in this section, contact Momentive Performance Materials at 877-943-7325, or visit their website at www.siliconesforbuilding.com.

PART 1 - GENERAL

Include the following into PART 1 of the Glazing Specification requiring UltraGlaze™ SSG4600 silicone sealant for submission of product data and samples.

1.1 SUBMITTALS

- A. Sealant Submittals:
 - 1. Product Data: Manufacturer's descriptive data and application instructions.
 - 2. Samples: Sealant samples [showing available colors.] [in specified color.]
 - 3. Laboratory Test Reports:
 - a. Sealant-Substrate adhesion testing.
 - b. Sealant compatibility testing.
 - c. Sealant manufacturer's recommendations.

1.2 WARRANTY

- A. Manufacturer's Warranty:
 - 1. Silicone Sealants: Up to twenty (20) year limited weatherseal warranty.

1.3 WARRANTY

- A. Manufacturer's Warranty:
 - 1. Silicone Sealants: Up to twenty (20) year limited weatherseal warranty.

PART 2 – PRODUCTS

Insert the following into PART 2 of the Glazing Specification requiring UltraGlaze™ SSG4600 structural silicone glazing sealant.

2.1 MATERIALS

- A. Joint Sealant, Silicone:

1. Acceptable Product: UltraGlaze™ SSG4600 by Momentive Performance Materials (www.siliconeforbuilding.com). [Substitutions not permitted.] [Refer to Division 01 for Substitution Procedures.]
2. Description: Two component, neutral cure, 100 percent silicone sealant and adhesive.
3. Physical Characteristics:
 - a. Cyclical movement capability: Plus or minus 25 percent, tested to ASTM C719.
 - b. VOC content: 21 g/l, mixed at 12:1 ratio weight.
 - c. Hardness: ±40 durometer Type A indenter, tested to ASTM D2240.
 - d. Ultimate tensile strength: 192 PSI (1.3 MPa), tested to ASTM C1135.
 - e. Ultimate elongation: 256 percent, tested to ASTM C1135.
 - f. Tear strength, die B: 64 PSI, 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.

Available in 2 standard colors.

4. Color: [Black.] [Medium Grey.]

2.2 ACCESSORIES

UltraGlaze™ 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, make trial applications to check adhesion to the specific materials to be used on the Project.

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

Insert the following into PART 3 of the Glazing Specification requiring UltraGlaze™ SSG4600 silicone sealant.

PART 3 - EXECUTION

3.1 PREPARATION

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

3.2 INSTALLATION

- A. Apply sealant in accordance with manufacturer's instructions.
- B. Apply sealant in continuous operation.
- C. Apply positive pressure adequate to fill cavity free of voids.
- D. Push sealant bead ahead of the nozzle ensuring entire cavity is filled. Force sealant into contact with sides of the joint by neatly tooling, helping to eliminate any internal voids and assuring good contact.
- E. Tool structural sealant at sill so that precipitation and cleaning solutions will not pool.

3.3 CLEANING

- A. Remove excess sealant from adjacent glass, metal, and plastic surfaces while still uncured.

END OF SECTION