

# UltraGlaze™ SSG4000E

## Structural Glazing Silicone Adhesive

### Product Description

UltraGlaze SSG4000E silicone is a one-component high-strength neutral cure elastomeric adhesive sealant tested for structurally glazed curtainwall applications. The material is supplied as a paste, which cures into durable and flexible silicone rubber upon exposure to atmospheric moisture.

### Key Features and Typical Benefits

- **Primerless Adhesion** - Direct bonds to most conventional substrates and finishes including: glass, glass coatings, ceramic frits, fluropolymer and powder coated paints, conversion-coated and anodized aluminum.
- **High Tensile Strength** - Can increase safety factors in SSG designs.
- **High Tear Strength** - Useful in Protective Glazing applications.

### Potential Applications

- **Structural Glazing** - Factory glazing of unitized curtainwall systems or in field constructed stick curtainwall systems
- **Weatherseal** - For applications where expected joint movement is  $\leq 25\%$  of installed width
- Panel stiffener

### Colors

Available in Black and Grey.



Black Grey

### Packaging

UltraGlaze SSG4000E silicone is currently available in 310 ml plastic caulking cartridges, 591 ml (20 fl. oz.) foil sausage packs and 200 L drums (290 Kg.).

### Typical Physical Properties

Typical physical property values of UltraGlaze SSG4000E structural glazing silicone adhesive as supplied and cured are set forth in the tables below.

### Typical Properties - Uncured

| Property                 | Value <sup>(1)</sup> | Test Method |
|--------------------------|----------------------|-------------|
| Color                    | Black/Grey           | -           |
| Polymer                  | 100% Silicone        | -           |
| Consistency              | Non-sag paste        | -           |
| Specific Gravity         | 1.52                 | ISO 1183-1  |
| VOC                      | 27 g/l               | LEED        |
| Work Life (tooling time) | 20-30 minutes        | -           |
| Tack Free Time           | 1-2 hours            | EN ISO 7390 |
| Sag/Slump                | 2mm max.             | ISO 7390    |

### Typical Properties - Cured

| Property                                                                    | Value <sup>(1)</sup>               | Test Method  |
|-----------------------------------------------------------------------------|------------------------------------|--------------|
| Hardness, Durometer (Type A Indentor)                                       | 42                                 | ISO 868      |
| Ultimate Tensile Strength                                                   | 1.8 MPa (261 psi)                  | ISO 37, S2   |
| Ultimate Elongation                                                         | 400%                               | ISO 37, S2   |
| Tensile at 25% Elongation                                                   | 0.47 MPa (68 psi)                  | ISO 8339     |
| Tensile at 50% Elongation                                                   | 0.5 MPa (80 psi)                   |              |
| Ultimate Tensile Strength                                                   | 0.98 MPa (142 psi)                 |              |
| Ultimate Elongation                                                         | 80%                                |              |
| Tear Strength; die B                                                        | 0.6 MPa (87 psi)                   | ETAG002      |
| Shear Strength (6 mm thickness)                                             | 0.63 MPa (91 psi)                  | ETAG002      |
| Peel Strength (average); aluminum, glass (21-day cure @ 21°C (70°F) 50% RH) | 4 N/mm                             | ASTM C794    |
| Joint Movement Capability                                                   | $\pm 25\%$                         | ASTM C719    |
| Service Temperature Range (after cure)                                      | -48°C to (-55°F) to +100°C (212°F) | -            |
| Weathering and U.V. Resistance                                              | Excellent                          | 30 yr. study |
| Cure Time (6mm deep section) @ 24°C (75°F) 50% RH                           | 2-3 days                           | -            |
| Full Cure (most common bead sizes)                                          | 10-14 days                         | -            |

(1) Typical properties are average data and are not to be used as or to develop specifications.

## Installation

Refer to SSG Design and Application Guide for Surface Preparation requirements, design information and detailed application instructions.

## Applicable Standards

UltraGlaze SSG4000E silicone meets or exceeds the requirements of the following specifications for one-part sealants.

ASTM Specifications:

- C1184, Type S, Use G and O (finished aluminum)
- C920; Type S, Grade NS, Class 25, Use NT, A, G, O

European Specification:

- EOTA ETAG002: ETA-10/0196
- VOC regulations:
  - AgBB (DIBT) (June 2012)
  - Royal Belgian Decree (May 2014)

## Technical Services

Additional technical information, literature, laboratory testing and application engineering are available upon request from Momentive Performance Materials (MPM). Any technical advice furnished by MPM or any representative of MPM concerning any use or application of any MPM product is believed to be reliable, but MPM makes no warranty, expressed or implied, of suitability for use in any application for which such advice is furnished.

## Limitations

Customers must evaluate MPM products and make their own determination as to fitness of use in their particular applications.

Note: UltraGlaze SSG4000E silicone should not be considered for:

- Structural adhesion on bare metals or surfaces subject to corrosion (i.e., mill aluminum, bare steel, etc.)
- Encapsulated designs without access to moisture
- Exceedingly large structural cavities (see Sealant Application section in SSG Design and Application Guide for additional information).
- Application of product in exceedingly hot or cold conditions (see Sealant Application section in SSG Design and Application Guide for additional information).
- Underwater or in applications where the product will be in continuous contact with water.
- Contact with strong acids or bases.
- Food contact applications.

## Patent Status

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 Safety Data Sheet and label for product safety information, handling instructions, personal protective equipment if necessary, and any special storage conditions required. Safety Data Sheets are available at [www.siliconesforbuilding.com](http://www.siliconesforbuilding.com) or, upon request, from any MPM representative.

## Customer Service Centers

|                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>North America - America, Canada</b>                | +1 800 295 2392 Toll free<br>Email: commercial.services@momentive.com                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Latin America</b>                                  | <b>Brazil</b><br>+55 11 5128-4222 Direct Number<br>Email: contato@momentive.com<br><br><b>Mexico</b><br>+52 55 2169 7670 Direct Number<br>Email: commercial.services@momentive.com                                                                                                                                                                                                                                                                       |
| <b>EMEIA - Europe, Middle East, Africa, and India</b> | <b>Europe</b><br>+39 0875 758888 Direct Number<br><br><b>Middle East, Africa and India</b><br>+ 91 44 71212207 Direct Number*<br>*All Middle Eastern countries, Africa, India, Pakistan, Bangladesh, Sri Lanka<br>Email: 4information.eu@momentive.com                                                                                                                                                                                                   |
| <b>APAC - Asia Pacific</b>                            | <b>China</b><br>800 820 0202 Toll free<br>+86 21 3860 4928 Direct Number<br><br><b>Japan</b><br>Sales: JP.Silicones@momentive.com<br><br><b>South Korea</b><br>+82 2 3495 2141 Direct Number<br><br><b>South East Asia, Australia &amp; New Zealand</b><br>+60 3 8309 8088 Direct Number*<br>*South East Asia countries (Malaysia, Singapore, Thailand, Indonesia, Vietnam, Philippines, Cambodia, Myanmar / other countries located in Pacific region). |
| <b>MyMomentive™ Order Management Site</b>             | shop.mymomentive.com                                                                                                                                                                                                                                                                                                                                                                                                                                     |

THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE MATERIALS INC. AND ITS SUBSIDIARIES AND AFFILIATES (COLLECTIVELY "SUPPLIER"), ARE SOLD SUBJECT TO SUPPLIER'S STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SUPPLIER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN SUPPLIER'S STANDARD CONDITIONS OF SALE, SUPPLIER AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBE HEREIN. Each user bears full responsibility for making its own determination as to the suitability of Supplier's materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Supplier's products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Supplier's standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Supplier. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Supplier covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.

Before purchasing or using any Momentive products, please visit [www.siliconeforbuilding.com/legaldisclaimer](http://www.siliconeforbuilding.com/legaldisclaimer) to view our full product and sales disclaimer.

The use of the "TM" symbol designates registered or unregistered trademarks of Momentive Performance Materials Inc., or its affiliated companies.

Copyright 2025 Momentive Performance Materials Inc. All rights reserved.

**siliconesforbuilding.com**



**Licensed  
Partner**