

# SSG4600 UltraGlaze\*

## Ensuring Project Success

From a project's inception to completion, Momentive Performance Materials (MPM) offers superior technical assistance. With decades of experience on some of the world's most innovative and picturesque structures, the MPM team provides a wealth of knowledge and support to help ensure project success.

The process that MPM follows to provide recommendations is outlined below. Technical support is available throughout the process.

1. **Project Review** – Reviews project details to assist with proper product selection based on usage criteria, specifications and customer needs
2. **Drawing Review** – Reviews all drawings and details to help identify the required contact width and configuration of the structural silicone based on project performance requirements and installation considerations
3. **Lab Testing** – Tests all substrates to be used in the project that the sealant is to bond to, or will come in contact with, in the factory or on the jobsite
4. **Project Report** – Provides written test result reports that detail product recommendations and recommended substrate preparation for the project
5. **Quality Control** – Develops easy-to-follow QC testing (including adhesion testing) and documentation procedures to help ensure consistent performance from inception to completion
6. **Project Warranty** – Once steps 1-5 are satisfactorily completed, offers extended warranties for long-term assurance.

Web: [www.ge.com/silicones](http://www.ge.com/silicones) | Technical Services: 1-800-255-8886 | Customer Service: 1-877-943-7325

## An Ideal Combination for Structural Glazing:

## Design Flexibility & Operational Efficiency

GE UltraGlaze\* silicone sealants are rooted in a history of excellent performance on complex and unique building structures around the globe. When innovative, world-class architecture utilizes structural glazing silicone systems to achieve awe-inspiring results, GE UltraGlaze sealants can deliver with outstanding strength, durability and weatherability.

SSG4600 is a high-strength, two-part silicone elastomeric adhesive/sealant for use in a multitude of structural glazing applications, including the fabrication and shop glazing of curtainwall systems. The outstanding mechanical properties of SSG4600 provide additional performance to an already time-tested UltraGlaze product line, significantly expanding the design landscape for architects and specifiers. And, SSG4600's ease of use in application allows for an efficient fabrication process eliminating the efficiency-for-performance trade-off.



Licensed  
Products

GE is a trademark of General Electric Company and is under license by Momentive Performance Materials Inc. \*Trademark of Momentive Performance Materials Inc. Copyright 2010 Momentive Performance Materials Inc., all rights reserved.



**MOMENTIVE**  
performance materials



Licensed  
Products



**MOMENTIVE**  
performance materials

# Exceptional Performance Allows for Innovative Design Flexibility

As the complexity of building design has evolved, so have the performance capabilities of the UltraGlaze line. SSG4600 can address the increasingly demanding design requirements brought on by expanding design boundaries. The combination of durability, flexibility and extreme strength that SSG4600 delivers represents a next generation material for an array of façade bonding and sealing applications.

SSG4600, with high tensile-adhesion strength, is capable of withstanding extreme forces and pressures without tearing or rupturing. High tensile strength is particularly critical in structural glazing applications; when combined with the long-term durability and stability of silicone sealants, SSG4600 can deliver a high safety factor. With a high inner tear strength, SSG4600 is capable of resisting tear propagation and maintaining performance integrity if inadvertently damaged. SSG4600's great flexibility can allow it to absorb and endure severe impact, reducing the potential for damage brought on by extreme wind, precipitation and a range of seismic activity.

## ■ Possesses Strength & Flexibility for Protective Glazing

SSG4600 possesses the strength and flexibility required to be an excellent choice for many protective glazing applications. The properties inherent to silicone provide the basis for excellent strength and durability. The additional strength and durability that SSG4600 yields due to the combination of high tensile and tear strength and great flexibility can allow it to remain intact when exposed to extreme conditions, reducing the potential for damage from intense wind, precipitation and a range of seismic activity. As such, SSG4600 further expands the realm of design possibilities for specifiers and designers.

### SSG4600 PROPERTIES

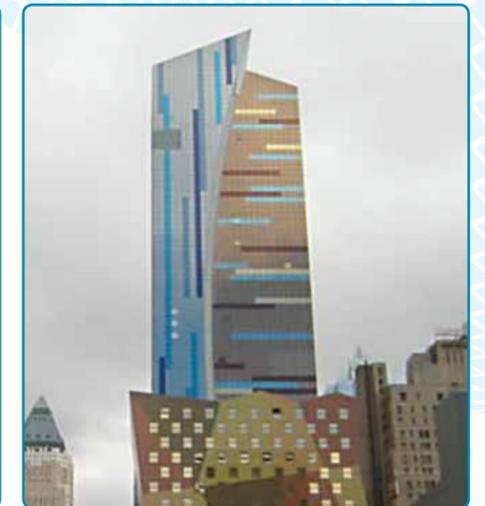
■ Tensile Strength	192 psi
■ Tear Strength	65-70 ppi
■ Movement Capability	+/- 25%
■ Work Life	25-65 Minutes
■ Colors	Black & Grey

## ■ Combats All Climatic Conditions

Due to its silicone composition, SSG4600 can withstand severe atmospheric conditions and extreme weather fluctuations that structures face from season to season. SSG4600 exhibits excellent long-term resistance to ultraviolet radiation, high and low temperatures, rain, snow and natural weathering. As such, 4600 provides the two most critical attributes of effective weatherproofing: long-term efficacy in sealing out air and water; and the ability to withstand weather and atmospheric conditions without degradation.

## ■ Provides Versatility in Substrate Choices & Color

SSG4600 provides excellent adhesion to more than 200 tested finishes—it adheres primerless to many conventional substrates and finishes including anodized aluminum, alodine, PVF2, powder coating and glass. The sealant is also available in black and grey.



# No Compromise: Operational Efficiency and High-Performance

SSG4600 increases operational efficiency by helping reduce fabrication and maintenance costs and increase productivity.

## ■ Expedited Fabrication: Rapid adhesion build

SSG4600's work life is adjustable from 25-65 minutes and typical unit handling time is four hours, allowing expedited fabrication and production of units to meet demanding project timelines or alleviate shop capacity constraints.

## ■ Improved Throughput: Lower Pumping Pressure

The consistency of SSG4600 is such that it can flow easily through pumps, allowing for longer pump life and reduced maintenance on equipment. The consistency also allows for a higher application rate, providing a faster and more thorough joint filling capability -- even in deep SSG cavities and corners -- with easier tooling effort, ultimately helping improve throughput and operational efficiency.

## ■ Increased Productivity: Adjustable Work Life

Offering the widest mixing ratio range available in our product family, the SSG4600 mix ratio of base and catalyst can be adjusted to suit the project or climate, as the cure speed can be increased or decreased, allowing flexibility in application.

## ■ Improved Consistency: Primerless Adhesion

Without the need for primer on most nonporous construction materials, SSG4600 improves adhesion consistency that can be compromised by improper primer application. Without the need for primer, users could also yield significant cost savings from the elimination of costs associated with additional labor and products.

## ■ Enhanced Safety: Non-flammable

This feature eliminates the need and associated cost for special hazardous storage or handling requirements and provides enhanced safety for workers. [Confirm that the product does not otherwise have special hazardous storage or handling requirements.]

## PRODUCT DETAILS

**Kit:** Consists of Part A – 55 Gallon Drum and Part B – 5 Gallon Pail  
**2-part cartridges:** Available for product testing