



GE Silicones

# Glass Solutions

Silicone performance  
for lasting façades.





# We redefine boundaries to enable success.

## Innovating across time...

We come with a proud legacy of turning obstacles into opportunities with strong, resilient, and adaptable silicone solutions.

- 1932** General Electric Company begins developing silicones
- 1940** A GE scientist invents a safer, larger-scale silicone manufacturing process
- 1944** GE produces silicone rubber that assists the U.S. effort during WWII
- 1963** GE introduces one of the first-to-market silicone sealants
- 1969** Astronauts take the first steps on the moon with boots featuring silicone technology from GE
- 1974** GE silicone technology enables the world's first significant four-sided glass façade in Chicago
- 1980s** GE launches high-strength sealants to meet increased demands of curtainwall systems
- 2006** GE Silicones sealants help restore the Empire State Building to its full glory

## ...to drive a future of megatall heights, jumbo glass, and evolving trends.

From helping humankind first walk on the moon, to developing cutting-edge materials in our labs today, we go beyond the ordinary to help ensure the success of the next big idea. We have refined our 100% silicone technology over decades to help builders meet pressing needs and achieve daring designs with confidence.



# For what is next.

Our reliable, high-strength GE Silicones solutions can help buildings reach new heights, enhance energy efficiency, and unlock possibilities yet to come.



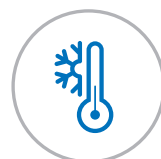
# Building performance you can trust.

The building façade is often the first line of defense against tough conditions. Ambitious glass designs need to look beautiful while keeping occupants safe throughout the building's lifetime. Put your trust in 100% silicone, a distinctive chemistry that can withstand everyday wear-and-tear as well as nature's unexpected extremes. Silicone sealants are easy to apply to virtually any surface offering a high-safety factor with its lasting durability and permanent flexibility.

## GE Silicones Glass Solutions:



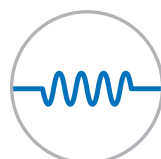
**FEATURE**  
the power of 100% silicone



**PERFORM**  
in freezing temperatures



**RESIST**  
blazing heat and UV rays



**FLEX**  
with building vibrations and movement



**ENDURE**  
extreme weather conditions

472 meters above ground



## Big views, big protection.



**Shanghai World Financial Center**  
Pudong District, Shanghai, China

SSG4400 UltraGlaze\* Sealant, SCS9000 SilPruf\* NB Sealant

Occupying the floors above and below a trapezoidal sky portal, this supertall building boasts some of the world's highest observation decks. GE Silicones structural glazing solutions helped make this engineering triumph possible with outstanding strength, durability, and weatherability.

NOTE: GE Silicones are not endorsed by or affiliated with the owner(s) of the Shanghai World Financial Center.

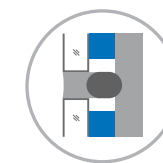
\*UltraGlaze and SilPruf are trademarks of Momentive Performance Materials Inc. 5





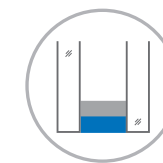
# Make an impact. Make it last.

GE Silicones Structural Glazing Sealants (SSG), Insulating Glass Sealants, and Weatherseal Sealants work in tandem to help create strong, efficient, protective glass façades. Put your trust in glazing sealants that can help simplify production—and technical experts who are eager to help you zero in on your next design solution.



## Structural Silicone Glazing Sealants

Don't chance it—trust the sealants used in some of the world's most awe-inspiring structures. These high-strength, durable formulas can help maintain safe, stable, and stunning glass façades.



## Insulating Glass Sealants

Seal and build insulating glass units with confidence. These solutions can help secure sweeping views and architectural marvels with a strong seal—and maximize production with simple application.



## Weatherseal Sealants

Ensure resiliency with versatility for virtually any building, any glass. These sealants can have a big impact on building longevity by guarding exteriors against wet weather, air intrusions, and extreme temperatures.

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## Full compatibility

All GE Silicones sealants seamlessly work together to help protect your glass façade for the long road ahead.

## Color consistency

Our Structural Glazing, Insulating Glass, and Weatherseal Sealants are harmonized to ensure color consistency in glazing applications.



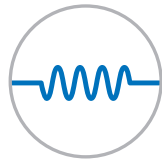
# Structural Silicone Glazing Sealants

GE Silicones Structural Glazing Sealants (SSG) create a strong, flexible, and durable bond in glass curtain walls.



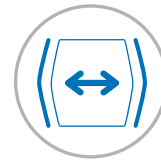
### STRONG

UV resistance, protection against extreme temperatures, rain, and snow

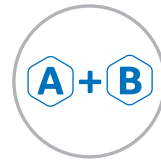


### FLEXIBLE

to counter high winds, impact, and movement



### EXCEPTIONAL tensile strength



### TWO-PART options



## SSG4600 UltraGlaze\* Sealant

Superb strength, durability, and flexibility come together with GE Silicones SSG4600 UltraGlaze sealant. This neutral cure, 100% silicone-based solution offers an adjustable work life and outstanding mechanical properties that can accommodate high production demands without any trade-offs in performance. SSG4600 UltraGlaze sealant is easy to apply with rapid adhesion and strength build-up, and comes with a two-part cartridge option to make in-field repairs simple.

Our expertly-engineered SSG products can seal out weather and withstand pressure, impact, and the test of time. Design and build the most complex, ambitious projects with these tested and trusted formulas.

	SSG4600 UltraGlaze* Sealant	SSG4400 UltraGlaze Sealant	SSG4000 UltraGlaze Sealant	SSG4000AC UltraGlaze Sealant	SCS2000 SilPruf*
1- or 2-part	2	2	1	1	1
20 PSI tension design stress	⬅️➡️	⬅️➡️	⬅️➡️	⬅️➡️	⬅️➡️
Movement capacity	±25%	±25%	±25%	±25%	±50%
High strength	👤+	👤	👤	👤	👤
Adjustable work life (minutes)	20-90	10-75	—	—	—
Colors	● ●	● ●	●	● ●	<b>MULTIPLE COLORS including custom</b>
Applicable standards	ASTM C1184 ASTM C920 GB16776 (China) ASTM F1642-04 ASTM E1886-02/05	ASTM C1184 ASTM C920 GB16776 (China) ETAG002 (Europe)	ASTM C1184 ASTM C920 CAN/CGSB—19.13-M87 (Canada)	ASTM C1184 ASTM C920 CAN/CGSB—19.13-M87 (Canada) AAMA: 802.3 Type 1 and 2 803.3, 805.2, 808.3	ASTM C1184 ASTM C920 CAN/CGSB—19.13-M87 (Canada)
Potential applications	Structural glazing Protective glazing Weatherseal	Structural glazing Weatherseal	Structural glazing Weatherseal Protective glazing Panel stiffener	Structural glazing Weatherseal Bedding material in the fabrication of doors and windows Protective glazing Panel stiffener	Structural glazing Weatherseal Protective glazing Panel stiffener Adhering US1100 and UST2200 UltraSpan* pre-cured weatherstrips
Warranty	UP TO <b>20</b> YEARS	UP TO <b>20</b> YEARS	UP TO <b>20</b> YEARS	UP TO <b>20</b> YEARS	UP TO <b>20</b> YEARS
Other benefits	2-part chemistry for faster cure speed Non-flammable catalyst Best in class primerless adhesion	2-part chemistry for faster cure speed Non-flammable catalyst	1-part chemistry for easy application	Faster early hour cure properties	High elasticity

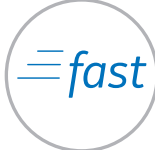


# Insulating Glass Sealants

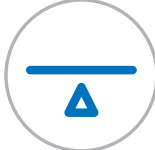
GE Silicones Insulating Glass Sealants offer a powerful seal that bond glass lites and spacers together—to support the integrity of air- or gas-filled insulating space.



**LASTING**  
resistance against natural weathering



**FAST CURE**  
to get the job done quickly



**ADJUSTABLE WORK LIFE**  
to fit project, climate, or production needs



Insulating Glass Sealants can help keep interiors comfortable and energy efficient when integrated with high-performance, low-E glazing solutions. Maximize production and minimize the time and expense of labor with a fast cure and adjustable work life.

	IGS3763 Sealant	IGS3723 Sealant	IGS3713 Sealant	IGS3103 Sealant
1- or 2-part	2	2	1	1
Neutral or Acetoxy cure	Neutral	Neutral	Neutral	Acetoxy
Low VOC	☆	☆	☆	☆
Colors	● ●	● ●	●	●
Applicable standards	Meets all global standards for Insulating Glass applications EOTA ETAG002, EN1279, ASTM E2190, ASTM C1369, GB24266	Meets EOTA ETAG002 and EN1279 standards Meets GB24266 standard Meets ASTM E2190 standard specification for Insulating Glass Unit Performance and Evaluation	Meets ASTM C1369 standard specification for Edge Sealants for Structural Insulating Glass Units Meets ASTM E2190 standard specification for Insulating Glass Unit Performance and Evaluation	Meets ASTM C1369 standard specification for Edge Sealants for Structural Insulating Glass Units Meets requirements of ASTM E2190 standard specification for Insulating Glass Unit Performance and Evaluation
Other benefits	2-part chemistry for faster cure speed Non-flammable catalyst Best in class primerless adhesion Higher modulus for improved gas retention	2-part chemistry for faster cure speed Non-flammable catalyst	Fast tack-free time for unit handling	Fastest 1-part curing system



### IGS3763 Sealant

IGS3763 sealant offers lasting protection for gas- and air-filled insulating glass units. This two-part edge sealant meets global standards and can extend the performance of insulating glass units with a high modulus seal. Its fast cure rate and adjustable work life can be tailored to fit virtually any production schedule or output—no matter if lines are manual or automated.

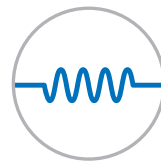


# Weatherseal Sealants

GE Silicones Weatherseal Sealants secure exterior building joints so façade systems perform as expected.



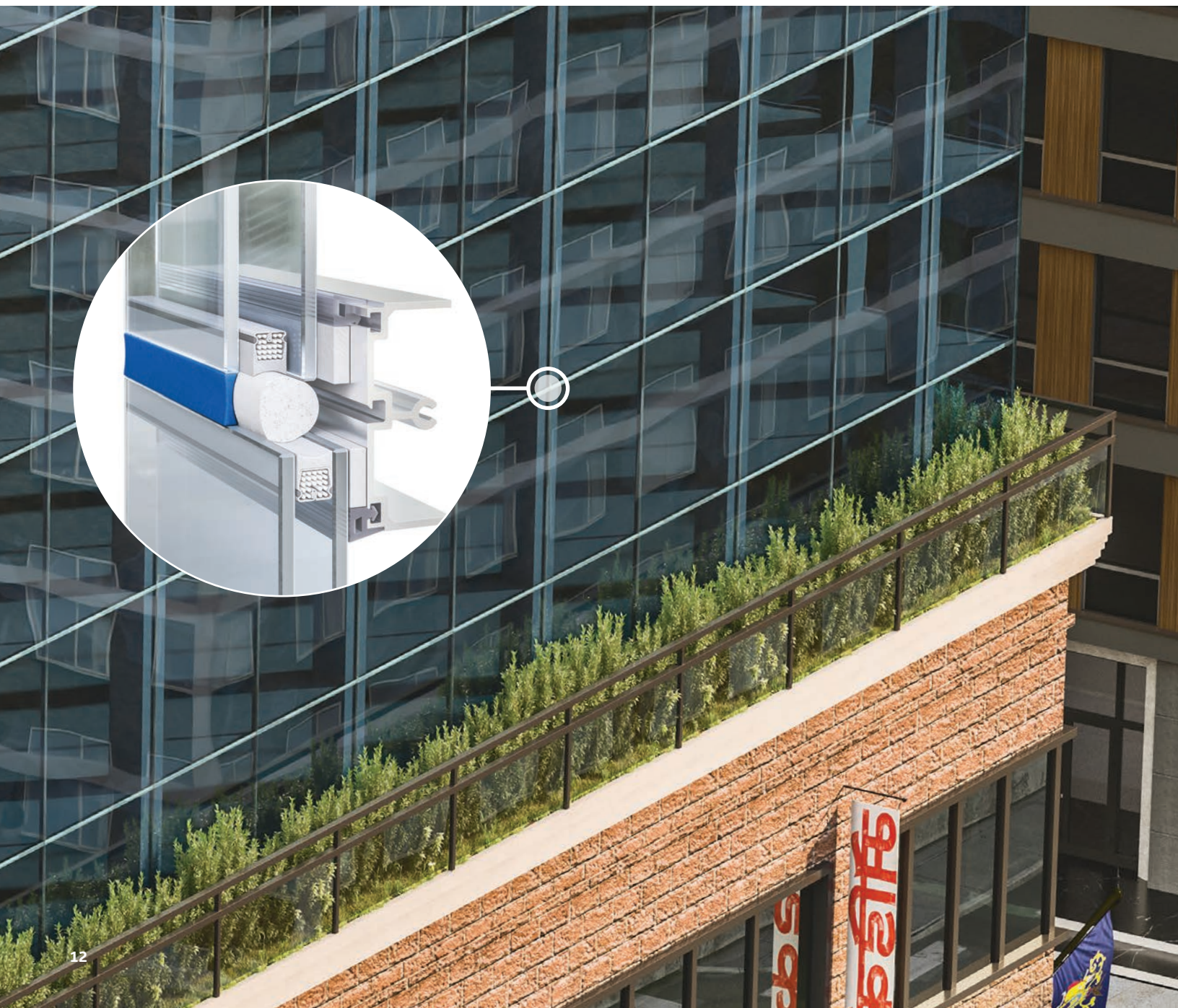
**WEATHERPROOF**  
in wind, rain, sun,  
and snow



**FLEXIBLE**  
to accommodate  
impact and  
movement



**STRONG**  
performance  
to protect  
designs



Our 100% silicone formulas expand and contract with façade components to help extend building life and aesthetics. Use Weatherseal Sealants in restoration projects to address waterproofing failures, or integrate into new construction for lasting resilience.

	SCS2000 SilPruf*	SCS2350 Sealant	SCS2700 SilPruf LM	SCS9000 SilPruf NB	SWS Sealant	UST2200 UltraSpan*	US1100 UltraSpan
Description	High-strength, silicone sealant	General purpose silicone sealant	Low-modulus silicone sealant	Non-stain silicone sealant	Silicone weatherproofing sealant	Pre-cured silicone sheet	Pre-cured silicone weatherstrip
Movement capacity	±50%	±25%	±100% / -50%	±50%	±50%	N/A	±200% / -75%
Colors	13 colors including custom	Black, white, & gray	8 colors including custom	8 colors including custom	17 colors	Translucent & black	8 colors including custom
Warranty	UP TO 20 YEARS	UP TO 20 YEARS	UP TO 20 YEARS	UP TO 20 YEARS	UP TO 10 YEARS	UP TO 20 YEARS	UP TO 20 YEARS
Other benefits	For structural glazing, weather-sealing, and protective glazing applications	Accelerated cure	Softer, more flexible formula for high-movement applications	Reduced dirt attraction and staining	Available in variety of color options	Available in 3 widths for gutters, seals, and transitions	For remedial over-sealing



### SCS9000 SilPruf NB Sealant

Repel airborne dust and dirt, reduce streaking, and uphold the look of your building with SCS9000 SilPruf NB sealant. Its non-bleed formula combines all the advantages of neutral-cure silicone to help create exteriors that are attractive and easy to maintain. This one-component solution offers excellent adhesion, movement capability, UV resistance, and durability.



## Fortifying a geometric wonder.



### China Central Television

Beijing, China

SSG4400 UltraGlaze\* Sealant

Built in a seismic zone under an aggressive deadline, the glass curtainwall of this bold design features 27,400 individual pieces—all in untraditional shapes and sizes. The façade fabricator chose GE SSG4400 UltraGlaze Sealant for its trusted strength, flexibility, and dependability in unpredictable circumstances.

NOTE: GE Silicones are not endorsed by or affiliated with China Central Television and/or the owner(s) of the CCTV building.

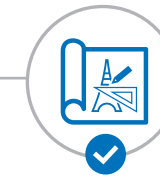


# At every stage, we're here to help make your glass project a success.



### Project Review

**Review project information** to assist with proper product selection based on usage criteria, specifications, and customer needs.



### Drawing Review

**Review drawings and details** to help identify the required contact width and configuration of the structural silicone based on project performance requirements and installation considerations.



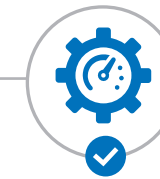
### Lab Testing

**Assist with substrate testing** to be used in the project that the sealant is to bond with, or will come in contact with, in the factory or on the jobsite.



### Project Report

**Provide written test result** reports that detail product recommendations and recommended substrate preparation for consideration in the project.



### Quality Control

**Develop easy-to-follow QC testing** (including adhesion testing) and documentation procedures to help ensure consistent performance from inception to completion.



### Project Warranty

**Offer extended warranties** for long-term assurance.

((contact us))

[siliconeforbuilding.com](http://siliconeforbuilding.com)





# GE Silicones

The GE Silicones family of coating and sealant products are engineered with excellence to support the ever-inventive, increasingly demanding architecture found around the world.



## Air & Water-Resistive Barrier Coating

Beneath the façade, above the rest.



## Architectural Coatings

Protect and enhance the building surface.



## Roof Coatings

Strong, lasting roof performance.



## Insulating Glass Sealants

Seal in lasting performance.



## Residential Glazing Sealants

Simple, snug, and secure.



## Structural Silicone Glazing Sealants

The trusted bond that lets you explore new boundaries of building design.



## Weatherseal Sealants

For strong, resilient building joints.

## Coat & Seal. Protect & Restore.

GE Silicones are a family of coatings and sealants used to weatherproof, insulate, and strengthen every element of the building envelope. Roofs. Façades. Glazing. And more. We put advanced and trusted innovation to work on your project. Some of our 100% silicone formulas have been part of the world's most ambitious projects. Astronaut boots on the moon. Soaring glass skyscrapers. Structures that have remained snug and secure since the 1970s. And, we make it easy. GE Silicones building envelope solutions are simple to install, and offer resilient, long-lasting protection.

Ready to get started on your next glass design?

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