

Construction Products



- Sealants
- Adhesives
- Coatings



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MOMENTIVE
performance materials



Table of Contents

Product Line Overview	3
Application Selector Guide	4-5
SilPruf SCS2000, SilPruf LM SCS2700, SilPruf NB SCS9000	6
SilGlaze II SCS2800, UltraSpan US1100, SilShield™ SEC2400	7
UltraGlaze SSG4000, UltraGlaze SSG4000AC, UltraGlaze SSG4400	8
Product Selector Chart	9-13
Technical Information	14-15
General Information/Sales Offices	Back Cover



***Wells Fargo Plaza
Houston, TX***

SilPruf* NB SCS9000 Sealant

New generation of silicone sealant specially formulated to reduce or eliminate dirt pickup, surface streaking and substrate staining.

SilPruf* LM SCS2700 Sealant

Unique patented technology that sets the standard for low-modulus, neutral-cure silicone sealants where +100%, -50% movement is required. Wide color range plus custom colors. Superior adhesion to masonry, EIFS, metals and plastics.

SilPruf* SCS2000 Sealant

The standard for high-performance weatherproofing and glazing where long tooling time and high joint movement are required. Wide color range plus custom colors.

UltraSpan* US1100 Weatherstrip

Unique ribbed design prevents squeeze-out. Formulated with heat-cured rubber for low dirt pickup, high strength and high tear resistance. Adhered with any SilPruf sealant to many substrates. Wide color and width range plus custom colors and widths.

SilShield* SEC2400 Coating

First primerless silicone elastomeric architectural coating with 100% silicone performance is a cost-effective alternative to acrylic coatings.

SilGlaze* II SCS2800 Sealant

Advanced neutral-cure product offers short tooling time and fast cure time, plus primerless adhesion to a wide variety of popular substrates.

UltraGlaze* SSG4400 Sealant/Adhesive

High-strength, high-modulus, two-part, neutral-cure structural glazing adhesive provides outstanding primerless adhesion to many substrates.

UltraGlaze* SSG4000 Sealant/Adhesive

The highest-strength one-part structural glazing adhesive available from GE. Use in-shop or in the field. High modulus and excellent adhesion.

UltraGlaze* SSG4000AC Sealant/Adhesive

Accelerated-cure, one-part, high-strength adhesive for structurally glazed curtainwall applications.

Sanitary SCS1700* Sealant

Mildew resistant sealant for ceramic tile, tubs, spas, showers and plumbing fixtures – anywhere hot, humid conditions may be encountered.

Construction SCS1200* Sealant

The highest-strength acetoxycure sealant, for structural glazing and premium general purpose applications. Provides outstanding adhesion and long life.

Contractors* N SCS1800 Sealant

Proven performance and quality for general purpose glazing and sealing applications. Economically priced to meet special budget requirements.

Contractors* SCS1000 Sealant

Proven performance and quality for general purpose glazing and sealing applications. Economically priced to meet special budget requirements.

Waterproofing Systems

PSC Primer/Surface Conditioners:

Acrylic-based, alkali-resistant surface treatments, for use on new masonry substrates prior to 30-day cure. Fast-drying formula seals porous surfaces and consolidates light chalk, enabling greater adhesion of top coat. Available in Clear and White.

RCS Series Sealants:

Acrylic-based, water clean-up, single-component elastomeric sealants. Excellent solution for the repair of above-grade non-structural cracks. Available in smooth and textured, brush and knife grades, as well as cartridges.

EWC & SWC Waterproof Coatings:

EWC23 – Acrylic resin elastomeric for use on new or previously painted substrates. Available in White, deep, and neutral bases, smooth and sand texture finishes.

EWC24 – Premium formulation elastomeric with internally plasticized resins providing +300% elongation. Available in White, deep, and neutral bases, smooth and sand texture finishes.



311 S. Wacker
Chicago, IL

	SilPruf NB SCS9000 Sealant	SilPruf LM SCS2700 Sealant	SilPruf SCS2000 Sealant	UltraSpan US1100 Weatherstrip	SilGlaze II SCS2800 Sealant	UltraGlaze SSG4400 Sealant	UltraGlaze SSG4000 Sealant	UltraGlaze SSG4000AC Sealant	Sanitary SCS1700 Sealant	Construction SCS1200 Sealant	Contractors N SCS1800 Sealant	Contractors SCS1000 Sealant
Standard Colors												
Translucent									✓	✓	✓	✓
White	✓	✓	✓	✓	✓				✓	✓	✓	✓
Black	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Limestone	✓	✓	✓	✓								
Light Grey	✓	✓	✓									
Aluminum Grey	✓	✓	✓	✓				✓		✓		✓
Dark Grey	✓	✓	✓	✓								
Precast White	✓	✓	✓	✓								
Bronze	✓	✓	✓	✓								✓
Almond									✓			
Blue White					✓							
Brown					✓							
Beige					✓							
Custom Colors Available	✓	✓	✓	✓	✓							

*Note: Special colors: Earth Tone, Red Brick, Champagne, Antique Pink, Blue Spruce, Sandy Beige

Application Selector Guide

KEY PERFORMANCE PROPERTIES		SEALANTS / ADHESIVES															
		Contractors™ SCS1000	Construction SCS1200™	Sanitary SCS1700™	SiIPruf® SCS2000	SiIPruf® LM SCS2700	SiIPruf® NB SCS9000	UltraSpan™ US1100	Contractors™ N SCS1800	SiIGlaze® II SCS2811 -D1	SiIGlaze® II SCS2800	SiIGlaze® II SCS2511	Multisil 5500	SCS7000	UltraGlaze® SSG4000	UltraGlaze® SSG4000AC	UltraGlaze® SSG4400
Structural Glazing			●		●										●	●	●
Weatherproofing	+100% -50%					●											
	+50%				●		●			●							
General Purpose Sealing		●	●		●			●	●	●		●	●				
Insulating Glass Sealant																	
Impact Glazing			●		●										●	●	●
General Purpose Glazing			●		●			●	●	●					●	●	●
Sanitary				●							●						
Window Manufacturing or Assembly			●					●		●	●				●		
Preformed Weatherstrip								●									
Soap & Water Clean Up																	
Paintable													●				
Waterproofing/Coatings																	
Alkali Resistant																	
Non-Bleed/Non-Stain Weatherproofing							●						●				
EIFS Systems Compatible					●	●	●						●				

KEY PERFORMANCE PROPERTIES	<i>IGS3103</i>	<i>IGS3703</i>	<i>IGS3713-D1</i>	<i>IGS3729</i>	<i>IGS3723</i>	<i>IGS3733</i>	<i>RCS20</i>	<i>RCS40</i>	<i>RCS50</i>	<i>RCS70</i>	<i>PFC11</i>	<i>PSC10</i>	<i>SEC2400</i>	<i>EW23</i>	<i>EW24</i>	<i>TWC45</i>	<i>WRA15</i>	<i>WRA21</i>	<i>WRS90</i>	<i>WRS95</i>	
Structural Glazing																					
Weatherproofing																					
General Purpose Sealing							●	●	●	●											
Insulating Glass Sealant	●	●	●	●	●	●															
Impact Glazing																					
General Purpose Glazing																					
Sanitary																					
Window Manufacturing or Assembly																					
Prefomed Weatherstrip																					
Soap & Water Clean Up							●	●	●	●	●	●		●	●	●	●	●	●	●	●
Paintable							●	●	●	●	●	●		●	●	●	●	●			
Waterproofing/Coating													●	●	●	●					
Alkali Resistant											●	●	●				●	●	●	●	●
Non-Bleed/Non-Stain Weatherproofing													●								
EIFS Systems Compatible							●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Silicone Sealants



SilPruf® SCS2000 **High-Strength** **Weatherproofing Sealant &** **Structural Glazing Adhesive**

High performance adhesive sealant appropriate for use in weatherproofing joints and also as a structural adhesive in SSG systems.

SilPruf's 30-minute tooling time provides easy application and longer on-the-job working time. Its medium-modulus characteristics allows building joints to withstand continuous extension and compression at high and low temperatures in almost any environment.

SCS2000 provides primerless adhesion* to most common building components including; glass, paints, plastics, most metals, stone, concrete and masonry.

- Easy-to-apply, medium-modulus silicone sealant designed for both narrow and wide joints where long tooling time and the ability to withstand high joint movement are required.
- Sets the standards for performance where neutral cure compatibility, long life, flexibility, high joint movement capability and a broad color selection are required.
- Available in 14 standard colors and in custom colors.
- Proven performance: has been providing outstanding weathersealing protection for building joints and curtainwall since 1974.
- A versatile joint sealant for both new and remedial projects.



*Droll Tower
Mexico City, Mexico*

SilPruf® LM SCS2700 **Low-Modulus** **Weatherproofing Sealant**

Neutral-cure, low-modulus, high-performance sealant for use as a weatherseal on EIFS, concrete, metal and plastics substrates.

SilPruf LM is a premium, one-part, neutral-cure, low-modulus, silicone sealant that is highly recommended for use in weatherproofing applications. Its unique, patented technology offers superior adhesion to metals, masonry, concrete, glass, paints, plastics and EIFS. In addition, it offers excellent durability, elasticity and high movement capacity in weatherseal joints.

- Low modulus: + 100%, -50% movement capability, resulting in less stress on the bondline.
- Superior adhesion to both metals and masonry; compatible with other sealants.
- Matte finish: Low gloss, aesthetically pleasing.
- Excellent adhesion to many substrates, including EIFS and concrete. Qualified construction sealant.
- Resistant to normal weathering conditions, such as sunlight, UV rays, ozone, rain, snow and temperature extremes.
- Excellent weatherability allows it to retain its properties after many years of exposure.
- Available in 8 standard colors and in custom colors.
- Compatible with laminated glass, insulating glass units, acrylics and polycarbonate sheets.
- Glass, metal and plastics in glazing and curtainwall assemblies. EIFS to EIFS joints and where EIFS abuts to metals or other substrates.
- Assemblies of metals, masonry, concrete, coated surfaces, plastics, wood and other common construction materials.

SilPruf® NB SCS9000 **Non-Staining Clean** **Weatherproofing Sealant**

A new generation of silicone sealant specially formulated to reduce or eliminate dirt pickup, surface streaking and substrate staining.

SilPruf NB silicone sealant is a one-part, neutral-cure, medium modulus, silicone sealant. This 100% silicone polymer is specially formulated to reduce or eliminate dirt pick-up and substrate staining from plasticizer bleed. Its reduced dirt pick-up allows it to be substituted for organic sealants, while retaining traditional silicone weatherability and long-life performance.

Suitable for use in weatherproofing applications, SilPruf NB silicone sealant can be used for butt or expansion and lap shear joints in weatherproofing and glazing applications that are subject to movement. It offers excellent adhesion to a wide variety of materials, including: glass, metal and plastics in glazing and curtainwall assemblies; EIFS-to-EIFS joints and situations where EIFS abuts to metals or other substrates; and assemblies of metals, masonry, concrete, coated surfaces, plastics, wood and other common construction materials. It is particularly suited for use on marble, granite, and other stones and concrete that are porous and subject to staining from sealant bleed.

- Non-stain/non-bleed technology.
- Adheres to glass, paint, plastic, most metals and stone without the use of primer.
- Building joints can withstand continuous expansion and compression of up to 50% of the original joint width at high and low temperatures.
- Unaffected by sunlight, ultraviolet radiation, rain, snow or temperature extremes.
- Tooling time of 30 minutes.
- Available in 8 standard colors and in custom colors.

* Test applications are recommended.

Silicone Sealants



SilGlaze® II SCS2800 **Fast-Tack Glazing Sealant**

This advanced technology sealant is engineered to meet the needs of window manufacturers and installers alike.

SilGlaze II offers a patented neutral, fast-cure technology that results in excellent adhesion to wood, vinyl, aluminum and glass; and improved throughput and productivity in automated glazing equipment.

SilGlaze II has been especially formulated for use in shop window fabrication as a bedding sealant as well as for cap, toe and heel bead applications. SilGlaze II sealant may also be used as a perimeter weatherseal for field glazing, window installation, and general purpose sealing applications.

SilGlaze II's fast-cure, medium-modulus, and high-strength properties provides fast adhesion build and a long-lasting bead that will accommodate the wide range of movement generated by today's window and building designs.

- One-part, neutral, medium-modulus, fast-cure sealant that offers excellent adhesion, weatherability and elasticity.
- Available in 7 colors plus translucent. Custom colors also available.
- Unique patented technology specially designed for use in shop window fabrication as a bedding sealant.
- 4 - 8 minutes tooling time, 5 - 7 days cure for 3/8" bead and <12 hrs. for a 1/8" bead are ideal for fast adhesion build.
- 230 psi strength and $\pm 50\%$ movement capability are ideal for long-term performance.



UltraSpan™ US1100 **Pre-Cured Silicone** **Weatherstrip**

Pre-formed, heat-cured, rubber-based weatherstrip for use in remedial sealing, flashing, roofing and many other applications.

UltraSpan weatherstrip is a pre-formed, heat cured, silicone elastomer designed as an alternative to removing & replacing failed building sealant. It can be bonded to a wide variety of building substrates with the SilPruf® family of sealants to span moving and non-moving joints and form a tough, durable weatherseal.

UltraSpan weatherstrip features a unique ribbed surface, which controls squeezeout and the depth of the bonding sealant. These ribs create "dams" which aid sealant application and reduce the possibility for three-sided adhesion.

- UltraSpan comes in 8 standard colors and is available in overall widths from 1" to 5", packaged in 100' rolls. The extruded, heat cured silicone rubber strip is approximately 1/16" thick.
- UltraSpan weatherstrips are specially formulated and designed for use in the repair and restoration of moving construction joints on exterior insulation finish systems (EIFS), precast concrete, brick and other building materials.
- Its low modulus reduces the strain on the surface of the substrate, while the elastomeric qualities allow excellent recovery from extension and compression cycling.
- UltraSpan weatherstrips can be applied in the field or at the factory to glass, metal and plastics in many building applications to produce a primary or secondary seal against water, air and dust penetration.

Silicone Architectural Coating



SilShield™ SEC2400 **Silicone Architectural** **Coating**

The first primerless silicone elastomeric architectural coating with 100% silicone performance is a cost-effective alternative to acrylic coatings.

SilShield can be used on a variety of architectural surfaces to provide a durable long-term weatherproofing barrier that is not susceptible to color fade or natural weathering.

SilShield bonds without primer to concrete, urethane foam, wood, copper, EIFS, aluminum, and many painted surfaces, simplifying application, saving time, and reducing labor costs.

- Easy to apply with brush, roller, or airless spray. High viscosity ensures that it stays where applied without running.
- Fast skin-over time (30 minutes) and short tack-free time (2-4 hours) speed application.
- Retains its original properties after many years of exposure to sunlight, ultraviolet radiation, rain, snow, and temperature extremes.
- Compatible with all GE branded neutral-cure sealants and UltraSpan™ weatherstrip.
- Available in custom colors.



*The Air Rights Center
Bethesda, MD*

Silicone Sealants



UltraGlaze® SSG4000 Structural Glazing Adhesive/Sealant

For both field and in-shop glazing applications requiring the ultimate in strength, UltraGlaze SSG4000 is the ideal choice.

SSG4000 structural glazing sealant is a one-component silicone designed for use specifically where neutral-cure compatibility and high strength are required. SSG4000 is easy to apply and tool due to its excellent handling characteristics and long tooling time.

- Ideal for shop or field glazing, field repair and weatherseals.
- High strength allows for high safety factors in SSG design.
- Compatible with one- or two-part silicone edge seals on insulating glass units.
- Strong adhesion* to a wide range of coated and uncoated glass, painted & anodized metals, among others.

UltraGlaze® SSG4000AC (Accelerated Cure) Structural Glazing Adhesive/Sealant

For both field and in-shop glazing applications requiring faster cure, UltraGlaze SSG4000AC is the ideal choice.

SSG4000AC is a one-component, high-strength, neutral-cure silicone providing accelerated cure rate for structurally glazed curtainwall applications. SSG4000AC was developed to meet increased demands for a fast curing, one-part product.

- High Strength allows for high safety factors in SSG design.
- Neutral-cure by-product means fewer compatibility issues.
- Fast green-strength build increases productivity.
- Excellent resistance to UV radiation, ozone, high and low temperatures and water vapor.
- Strong adhesion* to a wide range of coated and uncoated glass, painted & anodized metals, among others.

UltraGlaze® SSG4400 Two-Part Structural Glazing Adhesive/Sealant

Specifically designed for in-shop structural glazing to meet the critical demands of today's curtainwall systems.

UltraGlaze SSG4400 is a two-component, high-modulus, neutral-cure silicone providing outstanding strength and adhesion to many substrates. Engineered for use in structural glazing applications such as factory glazing of curtainwall units and modules for unitized and panelized systems. SSG4400 was developed to meet the increased demands of modern curtainwall systems utilizing new and advanced engineered materials and designs.

- Strong adhesion to glass, reflective glass coatings, anodized aluminum and most paints.
- Long work life reduces waste and eases assembly.
- Primerless adhesion to many conventional substrates and finishes.
- Variable mix ratio allows cure rate adjustment.
- High application rate for better joint filling capability and tooling.
- No kit matching required.
- Compatible with GE branded insulating glass sealants.
- Outstanding resistance to UV rays, ozone and temperature extremes.
- Strong adhesion* to a wide range of coated and uncoated glass, painted & anodized metals, among others.

Note: *Specific substrate testing is required on all structural glazed projects.



Product Selector Chart



Property	Property Significance	SilPruf® NB SCS9000	SilPruf® LM SCS2700	SilPruf® SCS2000	UltraSpan™ US1100
Substrates Note: Specific substrate testing is required on all structural glazed projects.	Substrates that the product is recommended for use on.	Glass, plastics, stone, concrete, masonry, stucco, terra-cotta, painted metals, mill finish/ anodized aluminum, stainless steel, brass, copper, bronze, ceramics.	Glass, plastics, concrete, masonry, stucco, EIFS*, terra-cotta, painted metals, mill finish/ anodized aluminum, galvanized steel, ceramics.	Glass, plastics, stone, concrete, masonry, stucco, EIFS*, terra-cotta, painted metals, mill finish/ anodized aluminum, ceramics.	Glass, plastics, stone, concrete, masonry, stucco, EIFS*, terra-cotta, painted metals, anodized aluminum, stainless steel, brass, copper, bronze, ceramics.
Dynamic Joint Movement (ASTM C719) (Continuous extension and compression, 1/8" per hour)	Movement capability determines suitability for known building movement conditions. Sealants should always be matched with building design criteria.	± 50%	+100%, -50%	± 50%	+100%, -50%
Minimum Joint Dimensions (Width x depth)	Important, as it relates to the sealant's ability to accommodate the required design movement.	1/4" x 1/4"	1/4" x 1/4"	1/4" x 1/4"	N/A
Maximum Joint Dimensions (Width x depth)	Important, as it relates to the sealant's ability to accommodate the required design movement.	3" x 1/2"	3" x 1/2"	3" x 1/2"	N/A
Tooling Time (75°F (27°C) @ 50% R.H.)	Indicates time it takes for a skin to form on the surface of the sealant bead.	20-30 minutes	20-30 minutes	20-30 minutes	N/A
Tack-Free Time (75°F (27°C) @ 50% R.H.)	Length of time a sealant requires before it can withstand incidental touch. Important for handling in many applications.	5 hours	5 hours	5 hours	N/A
Cure Time (To 3/8" depth @ 75°F (27°C) and 50% R.H.)	Cure times determine how long a sealant takes to develop its full properties. Important in glazing and curtainwall sealant applications, as well as in field and plant installations.	10 - 14 days	10 - 14 days	10 - 14 days	N/A
Recommended Application Temperature Range	Broad application temperature range allows installation under most climatic conditions.	+40 to +120°F (+4 to +49°C)	+40 to +120°F (+4 to +49°C)	+40 to +120°F (+4 to +49°C)	+40 to +120°F (+4 to +49°C)
Performance Range	Temperature range over which sealant is expected to maintain elasticity.	-55 to +200°F (-48 to +93°C)	-55 to +200°F (-48 to +93°C)	-55 to +200°F (-48 to +93°C)	-55 to +400°F (-48 to +93°C)
Hardness Shore (ASTM D2240)	An indication of hardness or softness of the material.	27	18	25	20
Tensile Strength (ASTM D412)	Can be significant in sealants when combined with extensions (modulus). Highest tensile strength best in structural glazing applications.	245 psi	245 psi	340 psi	800 psi
Elongation (%)		630%	780%	715%	1500%
Peel Strength (ASTM C794)	An indication of elastomeric properties and adhesion.	36 ppi	39 ppi	60 ppi	N/A
PSI Stress @ 50% Extension (1/2" x 1/2" x 2" bead)	Stress at a given extension is an indicator of sealant modulus.	42 psi	16 psi	41 psi	6 psi
Sag/Slump	Non-sag required for vertical joints.	0.1" max.	0.1" max.	0.1" max.	N/A
Cure Method	Important for compatibility decisions.	Alkoxy (neutral)	Alkoxy (neutral)	Alkoxy (neutral)	Heat cured
Packaging	Indicates what type of equipment is required for dispensing.	10.1 fl. oz. cartridges 20 fl. oz. sausage packs 2 gal. pails	10.1 fl. oz. cartridges 20 fl. oz. sausage packs 2 and 5 gal. pails	10.1 fl. oz. cartridges 20 fl. oz. sausage packs 2 and 5 gal. pails	100 ft. rolls
Conformance to specifications and/or test methods	These establish a standard of quality for chemically-curing sealants. Contact Quality Assurance, for certification details to Federal Specifications TT-S-001543A, TT-S-00230C, and ASTM C920.	<ul style="list-style-type: none"> ASTM C920, Type S, Grade NS, Class 50 CAN/CGSB-19.13-M87 TT-S-001543A TT-S-00230C SWRI 	<ul style="list-style-type: none"> ASTM C920, Type S, Grade NS, Class 100/50 CAN/CGSB-19.13-M87 TT-S-001543A • 00230C SWRI • EIMA 300.01 ASTM C1382 	<ul style="list-style-type: none"> ASTM C920, Type S, Grade NS, Class 50 ASTM C1184 CAN/CGSB-19.13-M87 TT-S-001543A • 00230C SWRI 	N/A

*Failures in finish coats EIFS are not covered under warranty



Product Selector Chart



Property	Property Significance	UltraGlaze® SSG4000 <i>High-strength, neutral-cure, structural glazing and weathersealing sealant.</i>	UltraGlaze® SSG4000AC <i>High-strength, accelerated-cure, structural glazing sealant.</i>	UltraGlaze® SSG4400 <i>High-strength, neutral-cure, two-part structural glazing sealant.</i>	SilGlaze® II SCS2800 <i>Rapid green-strength for window and door fabrication and general glazing application, neutral cure.</i>
Substrates Note: Specific substrate testing is required on all structural glazed projects.	Substrates that the product is recommended for use on.	Glass, glass coatings, painted/anodized aluminum, alodine, ceramic frit.	Glass, glass coatings, painted/anodized aluminum, alodine, ceramic frit.	Glass, glass coatings, painted/anodized aluminum, alodine, ceramic frit.	Glass, plastics, painted/anodized aluminum, galvanized steel, wood.
Dynamic Joint Movement ASTM C719 (Continuous extension and compression, 1/8" per hour)	Movement capability determines suitability for known building movement conditions. Sealants should always be matched with building design criteria.	± 25%	± 25%	± 12.5%	± 50%
Minimum Joint Dimensions (Width x depth)	Important, as it relates to the sealant's ability to accommodate the required design movement.	1/4" x 1/4"	1/4" x 1/4"	1/4" x 1/4"	1/4" x 1/4"
Maximum Joint Dimensions (Width x depth)	Important, as it relates to the sealant's ability to accommodate the required design movement.	1" x 1/2"	1" x 1/2"	2" x 1/2"	2" x 3/8"
Tooling Time [75°F (27°C) @ 50% R.H.]	Indicates time it takes for a skin to form on the surface of the sealant bead.	20-30 minutes	10-20 minutes	30-75 minutes (depending on mix ratio)	4-8 minutes
Tack-Free Time [75°F (27°C) @ 50% R.H.]	Length of time a sealant requires before it can withstand incidental touch. Important for handling in many applications.	5 hours	45 minutes	work life "snap time" plus 15 minutes.	20-30 minutes
Cure Time [To 3/8" depth @ 75°F (27°C) and 50% R.H.]	Cure times determine how long a sealant takes to develop its full properties. Important in glazing and curtainwall sealant applications, as well as in field and plant installations.	10-14 days	5-7 days	2-4 hours, 80% of properties 2-4 days, full properties	5-7 days
Recommended Application Temperature Range	Broad application temperature range allows installation under most climatic conditions.	+40 to +120°F (+4 to +49°C)	+40 to +120°F (+4 to +49°C)	+40 to +120°F (+4 to +49°C)	+40 to +120°F (+4 to +49°C)
Performance Range	Temperature range over which sealant is expected to maintain elasticity.	-55 to +200°F (-48 to +93°C)	-55 to +200°F (-48 to +93°C)	-55 to +250°F (-48 to +121°C)	-55 to +300°F (-48 to +149°C)
Hardness Shore (ASTM D2240)	An indication of hardness or softness of the material.	39	33	39	25
Tensile Strength (ASTM D412) Elongation (%)	Can be significant in sealants when combine with extensions (modulus). Highest tensile strength best in structural glazing applications.	340 psi 450%	310 psi 435%	265 psi 195%	230 psi 485%
Peel Strength (ASTM C794)	An indication of elastomeric properties and adhesion.	40 ppi	38 ppi	31 ppi	62 ppi
PSI Stress @ 50% Extension (1/2" x 1/2" x 2" bead)	Stress at a given extension is an indicator of sealant modulus.	75 psi	65 psi	70 psi	43 psi
Sag/Slump	Non-sag required for vertical joints.	0.1" max.	0.1" max.	0.1" max.	0.1" max.
Cure Method	Important for compatibility decisions.	Alkoxy (neutral)	Alkoxy (neutral)	Condensation (neutral)	Methoxy (neutral)
Packaging	Indicates what type of equipment is required for dispensing.	10.1 fl. oz. cartridges 20 fl. oz. sausage packs 2 and 5 gal. pails	10.1 fl. oz. cartridges 20 fl. oz. sausage packs 55 gal. drum	50 gal. drum (base) 5 gal. pail (catalyst)	10.1 fl. oz. cartridges 5 gal. pails 55 gal. drum
Conformance to specifications and/or test methods	These establish a standard of quality for chemically-curing sealants. Contact Quality Assurance, for certification details to Federal Specifications TT-S-001543A, TT-S-00230C, and ASTM C920.	<ul style="list-style-type: none"> • ASTM C920, Type S, Grade NS, Class 25 • CAN/CGSB-19.13-M87 • TT-S-001543A • TT-S-00230C • ASTM C1184 	<ul style="list-style-type: none"> • ASTM C920, Type S, Grade NS, Class 25 • CAN/CGSB-19.13-M87 • TT-S-001543A • TT-S-00230C • ASTM C1184 	<ul style="list-style-type: none"> • ASTM C920, Type M, Grade NS, Class 12.5 • TT-S-00227 • ASTM C1184 	<ul style="list-style-type: none"> • ASTM C920, Type S, Grade NS, Class 50 • CAN/CGSB-19.13-M87 • TT-S-001543A • TT-S-00230C • AAMA 802.3, 803.3, 805.2, 808.3

Product Selector Chart



Property	Property Significance	Contractors™ N SCS1800 <i>For general purpose glazing and sealing applications, neutral cure.</i>	Construction SCS1200™ <i>Premium glazing sealant for structural as well as general purpose glazing.</i>	Sanitary SCS1700™ <i>FMildew-resistant sealant for ceramic tile, showers, tubs and plumbing fixtures.</i>	Contractors™ SCS1000 <i>For general purpose glazing and sealing applications.</i>
Substrates Note: Specific substrate testing is required on all structural glazed projects.	Substrates that the product is recommended for use on.	Glass, plastics, painted/anodized aluminum, galvanized steel, wood.	Glass, plastics, metals, most paints.	Glass, plastics, painted/anodized aluminum, glazed surfaces, stainless steel, imitation marble, ceramic tiles.	Glass, glazed surfaces, painted metals, plastics.
Dynamic Joint Movement ASTM C719 (Continuous extension and compression, 1/8" per hour)	Movement capability determines suitability for known building movement conditions. Sealants should always be matched with building design criteria.	± 50%	± 25%	± 25%	± 25%
Minimum Joint Dimensions (Width x depth)	Important, as it relates to the sealant's ability to accommodate the required design movement.	1/4" x 1/4"	1/4" x 1/4"	1/4" x 1/4"	1/4" x 1/4"
Maximum Joint Dimensions (Width x depth)	Important, as it relates to the sealant's ability to accommodate the required design movement.	2" x 3/8"	2" x 3/8"	2" x 3/8"	2" x 3/8"
Tooling Time [75°F (25°C) @ 50% R.H.]	Indicates time it takes for a skin to form on the surface of the sealant bead.	4-8 minutes	4-8 minutes	4-8 minutes	4-8 minutes
Tack-Free Time [75°F (25°C) @ 50% R.H.]	Length of time a sealant requires before it can withstand incidental touch. Important for handling in many applications.	20-30 minutes	20-30 minutes	20-30 minutes	20-30 minutes
Cure Time [To 3/8" depth @ 75°F (27°C) and 50% R.H.]	Cure times determine how long a sealant takes to develop its full properties. Important in glazing and curtainwall sealant applications, as well as in field and plant installations.	5-7 days	3-5 days	3-5 days	3-5 days
Recommended Application Temperature Range	Broad application temperature range allows installation under most climatic conditions.	+40 to +120°F (+4 to +49°C)	+40 to +120°F (+4 to +49°C)	+40 to +120°F (+4 to +49°C)	+40 to +120°F (+4 to +49°C)
Performance Range	Temperature range over which sealant is expected to maintain elasticity.	-55 to +300°F (-48 to +149°C)	-55 to +400°F (-48 to +232°C)	-55 to +400°F (-48 to +232°C)	-55 to +400°F (-48 to +232°C)
Hardness Shore (ASTM D2240)	An indication of hardness or softness of the material.	25	30	31	29
Tensile Strength (ASTM D412) Elongation (%)	Can be significant in sealants when combine with extensions (modulus). Highest tensile strength best in structural glazing applications.	200 psi 220%	450 psi 460%	290 psi 400%	302 psi 430%
Peel Strength (ASTM C794)	An indication of elastomeric properties and adhesion.	53 ppi	63 ppi	34 ppi	39 ppi
PSI Stress @ 50% Extension (1/2" x 1/2" x 2" bead)	Stress at a given extension is an indicator of sealant modulus.	66 psi	52 psi	75 psi	43 psi
Sag/Slump	Non-sag required for vertical joints.	0.1" max.	0.1" max.	0.1" max.	0.1" max.
Cure Method	Important for compatibility decisions.	Methoxy (neutral)	Acetoxy	Acetoxy	Acetoxy
Packaging	Indicates what type of equipment is required for dispensing.	10.1 fl. oz. cartridges 5 gal. pails 55 gal. drum	10.1 fl. oz. cartridges 5 gal. pails 55 gal. drum	10.1 fl. oz. cartridges 5 gal. pails 55 gal. drum	10.1 fl. oz. cartridges 5 gal. pails 55 gal. drum
Conformance to specifications and/or test methods	These establish a standard of quality for chemically-curing sealants. Contact Quality Assurance, for certification details to Federal Specifications TT-S-001543A, TT-S-00230C, and ASTM C920.	<ul style="list-style-type: none"> • ASTM C920, Type S, Grade NS, Class 25 • TT-S-001543-A • TT-S-0230C • AAMA 8023 • AAMA 803.3 	<ul style="list-style-type: none"> • ASTM C920, Type S, Grade NS, Class 25 • NSF Std: No. F-51 • CAN/CGSB-19.13-M87 • TT-S-001543A • 00230C • FDA (21 CFR 175.105) • ASTM C1184 	<ul style="list-style-type: none"> • ASTM C920, Type S, Grade NS, Class 25 • CAN/CGSB-19.22-M89 • CAN/CGSB-19.13-M87 • TT-S-001543A • TT-S-00230C 	<ul style="list-style-type: none"> • ASTM C920, Type S, Grade NS, Class 25 • FDA (21 CFR 175.105) • NSF Std: No.F-51 • CAN/CGSB-19.13-M87 • TT-S-001543A-00230C



Product Selector Chart



	Primer Surface Conditioner		Resilient Construction Sealant		
	PSC10 Primer/Sealer	RCS70 Acrylic Elastomeric Sealants	RCS40 Acrylic Urethane Elastomeric Gun Grade Sealant	RCS50 Textured Acrylic Elastomeric Gun Grade Sealant	RCS20 Smooth Acrylic Latex Gun Grade Sealant
Description	100% Methyl-methacrylate acrylic resin. Alkali resistant. For use on new masonry substrates prior to 30-day cure. Seals porous surfaces. Consolidates light chalk. Fast dry.	Single-component elastomeric patches. Repair above-grade, non-structural cracks. Available in textured and smooth brush and knife grades.	High-performance, urethane-fortified acrylic. Single-component, low odor. Excellent gunnability.	Textured acrylic terpolymer formula for use as a positive patch for cracks in stucco and masonry surfaces.	Premium quality acrylic latex sealant with silicone for superior adhesion, durability and flexibility. Non-stain formula.
Color <i>Note: Many products are available in custom colors. Please contact the manufacturer for information.</i>	Clear and pigmented	White	White, Clear, Gray, and Bronze	White	White, Clear + 6 Standard Colors + Custom Colors
Texture	N.A.	Smooth and Textured	Smooth	Textured	Smooth
Application Temperature Range	50 to 100°F (10 to 38°C)	50 to 100°F (10 to 38°C)	50 to 100°F (10 to 38°C)	50 to 100°F (10 to 38°C)	50 to 100°F (10 to 38°C)
VOC Compliant* <i>*Check with local regulations</i>	Yes	Yes	Yes	Yes	Yes
Warranty	N.A.	N.A.	N.A.	N.A.	N.A.
Volume Solids	21%, ± 1%	RCS-TB and TK 63% RCS-SB 64% RCS-SK 66%	65%	65%	N.A.
ASTM C834-91	N.A.	N.A.	N.A.	N.A.	Pass
ASTM C67-87 Efflorescence	Pass	N.A.	N.A.	N.A.	N.A.
ASTM C719	N.A.	Pass	Pass	Pass	N.A.
ASTM C-920	N.A.	N.A.	Pass	N.A.	N.A.
ASTM D412-75/D2370 (Elongation)	N.A.	500%	500%	500%	300%
TT-C-555B	N.A.	Pass	Pass	Pass	Pass
TT-S-00230C (Type II CLS B)	N.A.	Pass	Pass	Pass	N.A.

Waterproofing Systems

The Bloxham Building
Tallahassee, FL



Product Selector Chart



	Elastomeric Waterproof Coating		Primer Fill Coat	Textured Wall Coating
	EWC23 Elastomeric Waterproof Coating	EWC24 Premium Elastomeric Waterproof Coating	PFC11 Acrylic High Build Fill Coat	TWC45 Acrylic Sprayable Textured Coating
Description	100% acrylic resin elastomeric coatings. Use on new or previously painted substrates. Available in White, deep, and neutral bases.	Formulated from 100% acrylic resin. Internally plasticized resins provide +300% elongation. Available in White, deep, and neutral bases.	Flexible filler for interior/exterior surfaces. Use on bare or previously coated surfaces. Provides less pinholing than conventional block fillers. Formulated from elastomeric resins.	100% acrylic resin coatings. Use for a variety of textural finishes. Sprayable with a high-volume, low-pressure system. Bases available.
Color <i>Note: Many products are available in custom colors. Please contact the manufacturer for information.</i>	White, tintable to a wide range of colors	White, tintable to a wide range of colors	White, tintable	White, tintable to a wide range of colors
Texture	Smooth and sand texture	Smooth and sand texture	Smooth	Smooth base, fine, medium, and coarse textures
Application Temperature Range	50 to 100°F (10 to 38°C)	50 to 100°F (10 to 38°C)	50 to 100°F (10 to 38°C)	50 to 90°F (10 to 32°C)
VOC Compliant* <i>*Check with local regulations</i>	Yes	Yes	Yes	Yes
Warranty	5-year limited warranty available	5- and 10-year limited warranty available	N.A.	5-year limited warranty available
Volume Solids	Smooth – 41% Textured – 40%	Smooth – 51% Textured – 50%	51.9%	Smooth – 45% Fine texture – 47.8% Med. texture – 47.8% Coarse texture – 47.8%
ASTM C834-91	N.A.	N.A.	N.A.	N.A.
ASTM C67-87 Efflorescence	N.A.	N.A.	N.A.	N.A.
ASTM C719	N.A.	N.A.	N.A.	N.A.
ASTM D2370 (Elongation)	200%	330%	N.A.	N.A.
ASTM D412-75 (Elongation)	N.A.	N.A.	N.A.	N.A.
TT-C-555B	Pass	Pass	Pass	Pass
TT-S-00230C (Type II CLS B)	N.A.	N.A.	N.A.	N.A.



Golden Bell Plaza
Shanghai, China



Marriott North Union Center
Cincinnati, OH



Trump International Hotel
New York, NY

Design Criteria

There are several properties relating to the optimum function of sealants in building applications that must be addressed to ensure the proper specification and selection of sealants for the job.

Adhesion refers to the ability of the sealant to bond to building substrates. The wide variety of substrate materials as well as environmental conditions directly affect adhesion properties. See Project Review section for information about adhesion testing.

Cohesion refers to the ability of the sealant to withstand extremes of expansion and contraction without tearing. Silicone sealants are particularly suited for this, as they remain flexible and physically stable as compared to organic sealants.

Modulus refers to the relationship of stress to strain of the sealant in bonded joints. It indicates the sealant's ability to absorb movement. A low-modulus material transmits a lower force to the bonded substrate than a high-modulus material for a given movement.

Hardness in sealants is generally measured on a Shore A durometer scale. Higher durometer sealants are preferred for structural glazing applications. Silicone sealants do not harden at low temperatures nor soften at high temperatures.

UV Resistance refers to a sealant's ability to retain its original performance properties after long-term UV exposure. Silicone sealants, being inorganic, do not deteriorate, crack or shrink when exposed to ultraviolet (sun) light.

Sealant Specification/Selection

Variations in joint design require specific performance criteria from sealants. Because of this, GE sealants offers a complete line of high-performance sealants, giving the design professional the ability to specify sealants with the maximum performance profile for specific applications.

There are a number of factors involved in the selection of the proper sealant, but the primary factor is the substrate involved and the inherent movement characteristics of that substrate.

Few construction joints are in fact static – most joints are subject to varying degrees of movement. Because of this, silicone sealants, with their inherent flexibility, offer the best solution in most types of joint-sealing applications.

- Stone and glass are subject to little thermal movement.
- Masonry and concrete usually have moderate thermal movement.
- Metal and plastic are subject to the most pronounced thermal movement.

Key criteria for specifying the proper sealant:

1. What substrates are involved in the joint area?
2. Will the substrate(s) exhibit high, medium or low movement (expansion and contraction)?
3. Will the application require long or short tooling time for the sealant?
4. Is the length of cure time important? (In shop-glazing applications, for example, glazed units must often be moved very quickly for efficient unit production.)
5. Is the length of tack-free time an important factor (e.g., disturbing the surface of the sealant prematurely, smudging, etc.)?
6. Does the application require translucent sealants or colors?

Project Review Service

This service provides professional technical assistance to aid you in the specification and selection of the proper sealant for your project. The Project Review is required for all structural glazing applications because of the rigorous performance criteria they must meet.

Proper testing can be performed in a test chamber at our laboratory, or on test panel joints at the building site. Both may recommend depending on the requirements of the application. Our construction experts are available to assist you whenever and wherever you need them.

1. Specification Review: Review project specifications to confirm proper product selection criteria and requirements.
2. Drawing Review: Review all shop drawings and details to confirm the required contact widths of the sealant bead and other pertinent performance considerations.
3. Laboratory Testing: Perform laboratory testing of all substrates which either come in contact with or are in close proximity to the sealant. On remedial projects, site testing can be substituted.
4. Project Report: Provide a written report covering the test results, product recommendations, and substrate preparation requirements.

Extended Project Warranty

Momentive Performance Materials¹ offers an Extended Project Warranty for structural glazing and weatherseal (new and remedial) projects. Extended warranty requires laboratory testing and/or on-site adhesion testing by the installing contractor and an authorized GE representative. To obtain this warranty, all four elements of the Project Review Service must be satisfactorily completed. For warranty details, contact your representative or call 800.255.8886.

Technical Reference Literature

Literature is available free of charge from your Area Manager/Technical Marketing Representative or by calling toll-free 800.255.8886.

- Design Guides: Structural Glazing, Joint Design and Sealant Selection, Surface Preparation and Primer Recommendation, Remedial Caulking.
- Suggested Specifications.
- Spec Data Sheets for all sealants & coatings.

ASSEMBLY, INSTALLATION

Application Recommendations

Sealants must be applied only to compatible surfaces that are absolutely free of contaminants, moisture and protective coatings.

Sealant-to-substrate adhesion tests should always be performed on the job site prior to sealant use (offers a free Evaluation Assistance Program for substrate testing). Any required primer must be evaluated on project by project basis.

Limitations

Silicone construction sealants are not recommended for use on surfaces below water or on plazas, decks, pavements, etc. Painting over elastomeric silicone sealants is not recommended because paint film does not stretch with extension of the rubber, and the adhesion of paint to this type of sealant is not adequate. (See Product Data Sheets for other specific limitations.)

Precautions

Material Safety Data Sheets are available upon request. Similar information for solvents and other chemicals used with GE products may be obtained from your suppliers. When solvents are used, proper safety precautions must be observed.

OPERATION, MAINTENANCE

Maintenance

Under normal conditions, no maintenance is required for construction sealants. Should the sealant bead become damaged, simply clean all affected areas and repair with fresh sealant. **All fresh sealants demonstrate the unique property of auto-bonding – the ability of one sealant to adhere to another cured sealant and to itself.**

In structural glazing applications, cleaning of all glass surfaces should be performed on a regular basis. All structural joinery should be inspected annually by a reliable agency approved by the design professional and the building owner.

CODES, CLASSIFICATION

Fire Hazard Classification

Construction sealants have been tested according to Underwriters Laboratories, Inc. UL 723-79 – “Test for Surface Burning Characteristics” [Construction 1200 and SilPruf sealants] and ASTM E814 – “2 Hr. Vertical Fire Endurance Test” [SilPruf sealant]. Contact your local representative for details.

¹Momentive Performance Materials is the manufacturer of GE construction sealants.



150 North Michigan Avenue
Chicago, IL



4 Allen Center
Houston, TX



Shanghai Pudong International Airport
Shanghai, China

Principal Locations

Regional Information	Phone	Fax
North America World Headquarters 187 Danbury Road Wilton, CT 06897, USA	800.295.2392	607.754.7517
Latin America Rodovia Eng. Constâncio Cintra, Km 78,5 Itatiba, SP – 13255-700 Brazil	+ 55.11.4534.9650	+ 55.11.4534.9660
Europe, Middle East, Africa and India GE Bayer Silicones GmbH & Co. KG Leverkusen Germany	00.800.4321.1000	
Pacific GE Toshiba Silicones 6-2-31 Roppongi Minato-ku Tokyo 106-8550 Japan	+ 81.3.3479.5361	+ 81.3.3479.5391
Customer Service Centers		
North America South Charleston, WV 25303, USA E-mail: cs-na.osi@ge.com	Specialty Fluids 800.523.5862	304.746.1654
	UA, Silanes, Resins, and Specialties 800.334.4674	304.746.1623
	RTV Products-Elastomers 800.332.3390	304.746.1623
	Sealants and Adhesives and Construction 877.943.7325	304.746.1654
Canada Toronto, Canada	Within Canada Outside Canada	800.668.4644 905.858.5187
Latin America Argentina and Chile Brazil Mexico and Central America Venezuela, Ecuador, Peru, Colombia, and Caribbean E-mail: csla.gesosi@ge.com	+54.23.2055.2857 +55.11.4534.9650 +52.55.5257.6042 +58.212.902.5167	+ 54.23.2055.2811 + 55.11.4534.9660 + 52.55.5257.6094 + 58.212.902.5158
Europe, Middle East, Africa and India GE Bayer Silicones GmbH & Co. KG E: ebusiness1.gebs@ge.com GE Specialty Materials (Suisse) Sàrl E: cs-eur.osi@ge.com	00.800.4321.1000 00.800.4321.1000	
Pacific Japan E-mail: helpdesk@getos.co.jp China Korea Singapore	+ 81.276.20.6182 + 86.800.820.0202 + 82.2.530.6400 + 65.6220.7022	
Worldwide Hotline	800.295.2392	+ 607.786.8131
Worldwide Web		gesealants.com

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