

Structural Glazing Products

Information on GE Structural Silicones

GE UltraGlaze*

SSG4000 – Single component, neutral curing

- High strength (163 psi / 1.1 MPa) per ASTM C1135, t=1/4"
- High tear strength (79 ppi)
- ASTM C719 Class 25 movement; meets ASTM C1184 SSG specification
- Longer work life; 30-40 minutes
- 29-year track record, since 1986

Black

SSG4000AC - Single component, neutral curing, accelerated cure

- High strength (139 psi / 0.96 MPa) per ASTM C1135, t=1/4"
- High tear strength (66 ppi)
- ASTM C719 Class 25 movement; meets ASTM C1184 SSG specification
- Shorter work life; 15-20 minutes
- 20-year track record, since 1995

Black and Grey

Both SSG4000 & SSG4000AC have been tested successfully in Numerous Protective Glazing (blast and impact) designs.

SSG4400 – Dual component, with fast cure catalyst options for shorter unit tip time

- High strength (146 psi / 1.0 MPa) per ASTM C1135, t=1/4"
- Tested to ASTM C1184, ETAG 002 & China GB16776 SSG specification
- Widest ratio range; 9:1 to 14:1 yields work life from 30-90 minutes
- ASTM C719 Class 12.5 movement
- 24-year track record, since 1991

Tear strength (39 ppi)

Black and Grey

SSG4600 – Dual component, latest generation with combined high strength, tear & elasticity

- High strength (192 psi / 1.32 MPa) per ASTM C1135, t=1/4"
- Tested to ASTM C1184 & China GB16776 SSG specification
- Widest ratio range; 9:1 to 14:1 yields work life from 20-90 minutes
- ASTM C719 Class 25 movement
- 6-year track record, since 2009
- Blast & hurricane impact tested

High tear strength (64 ppi)

Category 1 Resistance to Tearing (ETAG 002)

Black and Grey (grey is color matched to IG & WS)

- SSG4600A base + SSG4063B catalyst → Black

- SSG4600A base + SSG4607B catalyst → Grey



GE SilPruf* SCS2000

- **Dual-purpose**- weathersealing and structural glazing
- Single component, neutral curing
- Structural adhesive with combined high strength, tear & elasticity
- High strength (153 psi / 1.05 MPa) per ASTM C1135, t=1/4"
- High tear strength (77 ppi)
- 42-year track record, since 1973
- Meets ASTM C1184 Structural Silicone spec and • Carries SWRI validation
- Multiple colors for SSG + custom • ASTM C920 Sealants spec
- Successfully used in blast, seismic and hurricane impact tests/designs
- Structural sealant on world's first significant 4-sided SSG facade without safety mechanisms

GE Construction* SCS1200

- **Dual-purpose**- weathersealing and structural glazing
- Premium Acetoxy cure 1-part silicone
- 52-year track record, since 1963
- High strength (140 psi / 0.97 MPa) per ASTM C1135, t=1/4"
- ASTM C920 Type S, Grade NS, Class 25
- ASTM C719 Class 25 movement
- Meets ASTM C1184 Structural Silicone specification
- Colors: white, black, metallic silver & bronze + clear structural (translucent)
- Successfully used in Protective Glazing (hurricane) designs

Structural sealant used predominantly on the majority of 1970's GE projects when structural silicone glazing emerged. Many of these 1970's projects are still standing in locations as diverse as: Dubai (hot/humid), Johannesburg, Los Angeles (seismic area), Miami & Hong Kong (cyclone/hurricane zone), among others.

