

DuPont™ SentryGlas®

INTERLAYER

Sealant Compatibility

Many different sealants are used in the glazing industry and it is important to understand the chemical and mechanical compatibility of these sealants with the interlayer fabricated in a glass laminate. Laminates prepared with SentryGlas® interlayer show excellent compatibility with different kinds of sealants used in various glazing applications.

DuPont outdoor testing of sealant compatibility

SentryGlas® laminates show no edge defect formation after 42-months of natural outdoor weathering in Florida when tested with different types of sealants:

DuPont™ SentryGlas® Sealant Test

C. R. Laurence 33SC	1-component, acetic-cure, silicone
C. R. Laurence RTV408AL	1-component, neutral-cure, RTV silicone
Dow Corning 995	1-component, neutral-cure, silicone
Dow Corning 999-A	1-component, neutral-cure, silicone

Laminates made with SentryGlas® show no degradation from interactions with any of the sealants tested. There has been no differentiation between the silicone/SentryGlas® interface and the SentryGlas®/air interface. DuPont continues to conduct extensive sealant compatibility studies, and further results can be obtained by contacting your local DuPont representative.



Independent tests

An independent study done by GE Advanced Materials has been done with SentryGlas® laminates and various GE sealants. This has involved years of accelerated QUV weathering. The following sealants have been studied:

Independent Sealant Test—GE Advanced Materials

GE UltraGlaze® SSG4400	2-component, neutral-cure, high modulus, silicone
GE UltraGlaze® SSG4000	1-component, neutral-cure, high modulus, silicone
GE SilPruf NB SCS9000	1-component, neutral-cure, medium modulus, silicone
GE IGS3729	1-component, neutral-cure, high modulus, silicone

Laminates prepared with SentryGlas® show no visible defects.

Independent studies by Dow Corning reviewed the following sealants using a modified ASTM C1087 compatibility test method:

Independent Sealant Test—Dow Corning

Dow Corning® 756	1-component, neutral-cure, medium modulus elastomeric silicone
Dow Corning® 790	1-component, neutral-cure, ultra-low modulus silicone
Dow Corning® 791	1-component, neutral-cure, architectural grade silicone
Dow Corning® 795	1-component, neutral-cure, RTV silicone
Dow Corning® 895	1-part neutral-cure silicone
Dow Corning® 983	2-component, neutral-cure, RTV silicone
Dow Corning® 993	2-part silicone rubber
Dow Corning® 995	1-component, neutral-cure, elastomeric silicone

The DuPont™ SentryGlas® interlayer was determined to be approved for full contact with each of the Dow Corning sealants studied. A Dow Corning laboratory report can be obtained upon request.

An independent study done by Kömmerling Chemische Fabrik GmbH has been done with SentryGlas® laminates and various Kömmerling insulating glass sealants. This has involved testing according to IFT Guideline DI-02/1.

Independent Sealant Test—Kömmerling Chemische Fabrik GmbH

Kömmerling GD 116	2-component polysulfide
Kömmerling GD 677	2-component polyurethane
Kömmerling GD 920	2-component IG silicone
Kömmerling GD 823 N	1-component IG silicone
Kömmerling GD 826 N	1-component, neutral cure, alkoxy-silicone
Kömmerling Ködiglaze P	2-component polyurethane
Kömmerling Ködiglaze S	2-component silicone

Laminates prepared with SentryGlas® show no visible defects.

Worldwide DuPont Sales and Support

DuPont Glass Laminating Solutions supplies and supports customers from research, manufacturing and sales locations worldwide.

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