



## Tremco Structural Silicone Glazing Structural Silicone Reference

Refer to Tremco product data sheets (attached) for further physical properties.

Product	Description	Basic Use	Applicable Standards	Colors	Endurance Cycling	Tensile @ 100% Elongation	Tack Free Time	Tooling Time	Shore A	Depth Limitation	Cyclic Movement
Spectrem 2	A one-part, high performance, neutral cure, medium modulus, silicone sealant.	2-Sided and 4-sided structural glazing; Cap, heel and toe beads; Perimeter joint seals.	ASTM C-920 Type S, Grade NS, Class 50, use NT, M, G, A and O. TT-S-00230C, CGSB 19.13-M87.	Black only for SSG. Available in other colors for non-structural applications.	Maintains 95.5% of physical properties after equivalent of 50 years of cycling.	90-100 psi	20-40 minutes	10-20 minutes	37-40	1/2 inch in a single pass.	+/-50%
Proglaze II	A two-part, high modulus structural silicone sealant, consisting of a white base and a black curing agent.	In-plant structural glazing, 2-sided and 4-sided structural glazing, secondary seals in IG units.	ASTM C-920 Type M, Grade NS Class 25, use NT, G, A and O. TT-S-00227E Class A, and Type II.	Black	Maintains 99.9% of physical properties after equivalent of 50 years of cycling.	105-115 psi	90-120 minutes	10 minutes	40-45	Not limited.	+/-25%
Proglaze SG	A one-part, high modulus, neutral cure silicone sealant ideal for a wide variety of glazing applications.	2-Sided and 4-sided structural glazing, cap, toe and heel beads/air seals; curtain/window wall joints.	ASTM C-920 Type S, Grade NS, use NT, G, A and O; CAN/CGSB-19.13-M87, TT-S-00230C (COM-NBS) Class A, Type II, TT-S-001543A (COM-NBS) Class A	Black		100-125 psi	10-15 minutes	5-10 minutes	40-45	1/2 inch in a single pass.	+/-25%



**Tremco Structural Silicone Glazing**

**Custom Extrusion Reference, Silicone Dense Rubber and SCR-900 (Silicone Compatible Rubber)**

Refer to Tremco product data sheets (attached) for further physical properties.

Tremco Silicone Dense Rubber and SCR-900 materials surpass several important industry performance standards as shown in the tables below.

Property	ASTM Test Method	Silicone Dense Rubber Tested in Accordance to ASTM C 1115, Type C							
		40±5		60±5		70±5		80±5	
Durometer	D-2240								
		<b>Required</b>	<b>Actual</b>	<b>Required</b>	<b>Actual</b>	<b>Required</b>	<b>Actual</b>	<b>Required</b>	<b>Actual</b>
Compression Set, %	D-395	15% max.	13.8%	15.0%	12.5%	15.0%	11%	20%	12.9%
Tensile Strength, psi	D-412	725 min.	1060	725	1139	725	1075	725	1095
Tensile Strength, MPa	D-412	5 min.	7.3	5	7.8	5	7.4	5	7.6
Tear Strength, lbs/in	D-624	51 min.	120	51	107	51	121	51	92
Tear Strength, kN/m	D-624	9 min.	21.0	9.0	18.7	9	21.2	9	16.1

Property	ASTM Test Method	SCR-900 Tested in Accordance to ASTM C 864, Option II					
		60±5		70±5		80±5	
Durometer	D-2240						
		<b>Required</b>	<b>Actual</b>	<b>Required</b>	<b>Actual</b>	<b>Required</b>	<b>Actual</b>
Compression Set, %	D-395	30% max.	14.6%	30.0%	11.9%	35.0%	10.0%
Tensile Strength, psi	D-412	1600 min.	1850	1800	2004	1800	2240
Tensile Strength, MPa	D-412	11 min.	12.7	12.4	13.8	12.4	15.4
Tear Strength, lbs/in	D-624	150 min.	165	100	143	100	150
Tear Strength, kN/m	D-624	26.3 min.	28.9	17.5	25.0	17.5	26.2

Other compounds are available. Contact your local Tremco Sales Representative for more information.

**TO:** Tremco Sealant / Weatherproofing Division

**FROM:** Rick Fiderius  
Tremco Technical Service

**DATE:** September 10, 2004

**CC:**

**SUBJECT:** Tremco Silicones  
Adhesion & Compatibility

---

Technical Service Bulletin No. S-03-2

---

### Adhesion & Compatibility

Adhesion and compatibility are not one-in-the-same. Compatibility does not imply adhesion, although that is how it is sometimes interpreted. In other words, a statement for 'compatibility' of a particular sealant to another sealant or material should not be misinterpreted to mean that the sealant will bond, but only that the two products can be installed side-by-side with no adverse interaction where one may degrade the other.

With this said, in the case of **Spectrem 1, Spectrem 2, and Spectrem 3,**

we can claim full adhesion and full compatibility.

Spectrems 1, 2, and 3, applied in any order, do demonstrate adhesion and are fully compatible in any combination when applied 'wet-to-wet' or 'wet-to-dry'.

These silicones adhere to themselves when applied 'wet-to-wet'. In other words, Spectrem 1 applied to wet Spectrem 1, 2, or 3, will bond tenaciously. Likewise for Spectrem 2 and 3.

These silicones adhere to themselves when applied 'wet-to-dry', without the need for any primer. In other words, Spectrem 1 applied to fully cured Spectrem 1, 2, or 3, will bond tenaciously. Likewise for Spectrem 2 and 3.

Additionally, **Proglaze II will bond tenaciously to itself** when applied to cured Proglaze II. The Spectrem Silicones 1, 2, and 3, also bond and are fully compatible when applied to cured Proglaze II where point contact may occur with these products.

As always, prior to application, the surfaces must be clean and dry. A cured silicone that has been in place for some time must first be cleaned. A good surface prep would be a hard wipe using a clean rag dampened with IPA (isopropyl alcohol) solvent. As always, for any particular project, adhesion should be verified prior to commencing work, especially for a cured silicone that has been left exposed for a prolonged period of time.



Tremco Inc. Structural Silicone Glazing  
Glazing Materials - Point Contact vs. Full Contact

<b>Tremco Materials</b>	<b>Approved for Point Contact w/Tremco Silicones</b>	<b>Approved for Full Contact w/Tremco Silicones</b>
EDPM		
Dense	X	
Sponge	X	
Peroxide EPDM	X	
Sponge	X	
SCR 900/820		
Dense	X	X
Silicone		
Dense	X	X
SGT-900 Tape	X	X
SGT-2000 Tape	X	X

9/10/2004