

## PR-1425 Class B windshield and canopy sealant

### Description

PR-1425 Class B is an aircraft windshield and canopy sealant. It has a service temperature range from -65°F (-54°C) to 250°F (121°C), with intermittent excursions up to 275°F (135°C). This material is designed for fillet sealing of properly prepared glass, polycarbonate, acrylic and other aircraft sealing applications. This product is specifically formulated not to craze substrates. The cured sealant exhibits excellent resistance to UV and weather exposure.

PR-1425 Class B is a two-part, dichromate cured polysulfide compound. The uncured material is a low sag, thixotropic paste, suitable for application by extrusion gun or spatula. This sealant has excellent adhesion to common aircraft substrates.

The following tests are in accordance with PRC-DeSoto International and other OEM specification test methods.

### Application properties (typical)

Color			
Part A	Black		
Part B	Black		
Mixed	Black		
Mixing ratio			
By weight	Part A:Part B 10:100		
Base viscosity			
(Brookfield #7 @ 2 rpm),			
Poise (Pa-s)	16,000 (1600)		
Slump, inches (mm)			
	Initial	50 Minutes	90 Minutes
B-1/2	0.20 (5.08)	—	—
B-1	0.15 (3.81)	—	—
B-2	0.20 (5.08)	0.25 (6.35)	0.25 (6.35)

Application life and cure time @ 77°F (25°C), 50% RH

	Application life (hours)	Tack free time (hours)	Cure time to 30 A Durometer (hours)
B-1/2	1/2	<8	24
B-1	1	<24	48
B-2	2	<24	48

### Performance properties (typical)

Cured 7 days @ 77°F (25°C), 50% RH

Cured specific gravity	1.49
Nonvolatile content, %	93
Ultimate cure hardness, Durometer A	55
Peel strength, pli (N/25 mm), 100% cohesion	
Dry, 14 days at 77°F (25°C)	
MIL-G-25667 (Glass)	50 (222)
MIL-P-8184 (Acrylic)*	48 (214)
MIL-P-83310 (Polycarbonate)*	46 (205)
MIL-S-5059 (Stainless steel)*	46 (205)
MIL-T-9046 (Titanium comp. C)*	46 (205)
QQ-A-250/12 (Aluminum)	46 (205)

\*Primed with PR-142 Adhesion Promoter

Thermal rupture resistance - Retains pressure of 10 psi with only negligible deformation, both before and after immersion in JRF.

Low temperature flexibility @ -65°F (-54°C) - No cracking, checking or loss of adhesion.

Corrosion resistance - No corrosion, adhesion loss, softening, or blistering after 20-day immersion in 2-layer salt water/JRF @ 140°F (60°C).

Resistance to fluids - Excellent resistance to water, alcohols, petroleum-base and synthetic lubricating oils, and petroleum-base hydraulic fluids.

Flexibility - No cracks after bending 180 degrees over 0.125 inch (3.18 mm) mandrel.

