

# TECHNICAL DATA

## 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		Part A:Part B	
By weight	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)
AMS-T-9046 (Titanium comp. C)*	46 (205)
AMS-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.

Repairability to itself - Excellent to both freshly cured as well as fuel aged and abraded fillets.

Fungus resistance Non-nutrient

**Note:** The application and performance property values above are typical for the material, but not intended for use in specifications or for acceptance inspection criteria because of variations in testing methods, conditions and configurations.

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## Surface Preparation

Immediately before applying sealant to primed substrates, the surfaces should be cleaned with solvents. Contaminants such as dirt, grease, and/or processing lubricants must be removed prior to sealant application.

A progressive cleaning procedure should be employed using appropriate solvents and a new lint-free cloth conforming to AMS 3819. (Reclaimed solvents or tissue paper should not be used.) Always pour solvent on the cloth to avoid contaminating the solvent supply. Wash one small area at a time.

It is important that the surface is dried with a second clean cloth prior to the solvent evaporating to prevent the redeposition of contaminants on the substrate.

Substrate composition can vary greatly. This can affect sealant adhesion. It is recommended that adhesion characteristics to a specific substrate be determined prior to application on production parts or assemblies.

For a more thorough discussion of proper surface preparation, please consult the SAE Aerospace Information Report AIR 4069. This document is available through SAE, 400 Commonwealth Avenue, Warrendale, PA 15096-0001.

## Packing Options

PR-1425 Class B is supplied in two-part kits and Semco® cartridges.

## Mixing Instructions

Mix according to the ratios indicated in the application properties section. Mix Part A and Part B separately to uniformity, then thoroughly mix entire contents of both parts of the kit together taking care to avoid leaving unmixed areas around the sides or bottom of the mixing container.

## Storage Life

The storage life of PR-1425 Class B is at least 9 months when stored at temperatures between 40°F (5°C) and 80°F (27°C) in original, unopened containers.

## Health Precautions

This product is safe to use and apply when recommended precautions are followed. Before using this product, read and understand the Material Safety Data Sheet (MSDS), which provides information on health, physical and environmental hazards, handling precautions and first aid recommendations. An MSDS is available on request. Avoid overexposure. Obtain medical care in case of extreme overexposure.

**For industrial use only. Keep away from children.**

Additional information can be found at:  
[www.ppgaerospace.com](http://www.ppgaerospace.com)

For sales and ordering information call  
**1-800-AEROMIX (237-6649).**

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