



PR-1429 Class B low weight floorboard sealant

Description

PR-1429 Class B is a low cohesive strength sealant. It has a service temperature range from -65 °F (-54 °C) to 250 °F (121 °C), with intermittent excursions up to 300 °F (149 °C). This material is designed for butt sealing between aircraft interior floorboards or for depression filling and smoothing applications. The cured sealant maintains excellent elastomeric properties after prolonged exposure to both jet fuel and aviation gas.

PR-1429 Class B is a two-part manganese dioxide-cured, Permapol® P-5 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.

PR-1429 Class B is also available in preformed parts using PPG's proprietary Ambient Reactive Extrusion (PPG ARE™) additive printing technology.

The following tests are in accordance with PRC-DeSoto International test methods, unless otherwise noted.

Application properties (typical)

Color			
Part A	black		
Part B	green		
Mixed	grayish green		
Mixing Ratio		Part A: Part B	
By weight		10:100	
Base Viscosity, Poise (Pa-s)			
(Brookfield #7 @ 2 rpm)		15,000 (1,500)	
Slump, inches (mm)			
	Initial	50 minutes	90 minutes
B-1/2	0.10 (2.5)	---	---
B-2	0.10 (2.5)	0.10 (2.5)	0.10 (2.5)
Application life and cure time @ 77 °F (25 °C), 50% RH			
		Cure time to 30	
	Application	Tack free time	Durometer A
	life (hours)	(hours)	(hours)
B-1/2	1/2	< 8	24
B-2	2	< 24	48

Performance properties (typical)

Cured 14 days @ 77 °F (25 °C), 50% RH	
Specific Gravity	1.0
Nonvolatile Content, %	95
Ultimate cure hardness, Durometer A	50
Peel strength, pli (N/25 mm), 100% cohesion	
JRF fuel immersion, 7 days @ 140 °F (60 °C)	
AMS2471 (anodized aluminum)	22 (98)
AMS-C-27725 (IFT coating)	22 (98)
AMS-QQ-A-250/13 (alclad)	20 (89)
JRF fuel /3% saltwater immersion, 7 days @ 140 °F (60 °C)	
AMS2471 (anodized aluminum)	22 (98)
AMS-C-27725 (IFT coating)	23 (102)
AMS-QQ-A-250/13 (alclad)	23 (102)
Tensile Strength, psi (kPa)	
Standard cure	252 (1740)
Standard cure + JRF immersion, 14 days @ 140 °F (60 °C)	181 (1250)
Standard cure + 7 days @ 250 °F (121 °C)	340 (2340)
Elongation, %	
Standard cure	230
Standard cure + JRF immersion, 14 days @ 140 °F (60 °C)	188
Standard cure + 7 days @ 250 °F (121 °C)	108
Low Temperature Flexibility @ -65 °F (-54 °C) – No cracking, checking or loss of adhesion.	
Resistance to hydrocarbons – AMS2629 Type I Fuel immersion, 7 days @ 140 °F (60 °C) + 24 hours @ 120 °F (49 °C) in air:	
Weight loss, %	3.4
Flexibility – no cracks after bending 180°F over 0.125 inch (3.18 mm) mandrel.	
Repairability to itself – Excellent to both freshly-cured as well as fuel-aged and abraded fillets.	
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. (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-1429 Class B is supplied in a two-part can kit or a Semkit®.

PR-1429 Class B is also available in preformed parts using PPG ARE technology.

Storage life

The storage life of PR-1429 Class B is at least 6 months when stored at temperatures below 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 Safety Data Sheet (SDS) which provides information on health, physical and environmental hazards, handling precautions and first aid recommendations. An SDS is available upon request. Avoid overexposure. Obtain medical care in case of extreme overexposure.

For industrial use only. Keep away from children.

**For emergency medical information call
1-800-228-5635**

**Additional information can be found at:
www.ppgaerospace.com**

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

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This document has been reviewed by the PPG Aerospace Export Control Department and has been determined to contain only EAR99 controlled data.

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