

## PR-1428 Class B access door sealant

### Description

PR-1428 Class B is a low adhesion sealant. It has a service temperature range from -54°C (-65°F) to 121°C (250°F), with intermittent excursions up to 135°C (275°F). The material is designed for use as an access door sealant or in the fabrication of form-in-place (FIP) gaskets. It can also be used to protect electrical wires, terminals and equipment against fuel, moisture, dirt and short circuits. It has excellent resistance to aircraft fuels and lubricating oils.

PR-1428 Class B is a two-part, manganese dioxide cured, polysulfide compound. The uncured material is a low sag, thixotropic paste suitable for application by extrusion gun or spatula. It cures at room temperature to form a removable seal to common aircraft substrates.

This product is qualified to several manufacturers' specifications. Please contact PRC-DeSoto Europe for further information.

The following tests are in accordance with MIL-S-8784 Class B and other OEM specification test methods.

### Application properties (typical)

Colour			
Part A			Black
Part B			Red
Mixed			Dark red
Mixing ratio			Part A:Part B
By weight			10:100
Base viscosity			
(Brookfield #7 @ 2 rpm),			
Pa-s (Poise)			1100 (11,000)
Application life and cure time @ 25°C (77°F), 50% RH			
	Application life (hours)	Tack free time (hours)	Cure time to 20 A Durometer (hours)
B-1/2	1/2	<4	10

B-2	2	<8	24
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### Performance properties (typical)

Cured 14 days @ 25°C (77°F), 50% RH	
Cured specific gravity	1.50
Nonvolatile content, %	97
Ultimate cure hardness,	
Durometer A	50
Peel strength, N/25 mm (pli), positive adhesion with 100% adhesive mode of failure	
JRF immersion, 7 days @ 60°C (140°F)	
AMS 2471 (Anodized aluminium)	<4.44 (<1)
AMS 4901 (Titanium)	<4.44 (<1)
AMS 5516 (Stainless steel)	<4.44 (<1)
BMS 10-11 (Epoxy primer)	<4.44 (<1)
BMS 10-20 (Epoxy primer)	<4.44 (<1)
AMS-C-5541 (Alodine aluminium)	<4.44 (<1)
MIL-C-27725 (IFT coating)	<4.44 (<1)
QQ-A-250/12 (Aluminium)	<4.44 (<1)
QQ-A-250/13 (Alclad)	<4.44 (<1)
JRF/NaCl-H <sub>2</sub> O immersion, 7 days @ 60°C (140°F)	
AMS 2471 (Anodized aluminium)	<4.44 (<1)
AMS 4901 (Titanium)	<4.44 (<1)
AMS 5516 (Stainless steel)	<4.44 (<1)
BMS 10-11 (Epoxy primer)	<4.44 (<1)
BMS 10-20 (Epoxy primer)	<4.44 (<1)
AMS-C-5541 (Alodine aluminium)	<4.44 (<1)
MIL-C-27725 (IFT coating)	<4.44 (<1)
QQ-A-250/13 (Alclad)	<4.44 (<1)
Dry	
AMS 2471 (Anodized aluminium)	<4.44 (<1)
AMS 4901 (Titanium)	<4.44 (<1)
AMS 5516 (Stainless steel)	<4.44 (<1)
BMS 10-11 (Epoxy primer)	<4.44 (<1)
BMS 10-20 (Epoxy primer)	<4.44 (<1)
AMS-C-5541 (Alodine aluminium)	<4.44 (<1)
MIL-C-27725 (IFT coating)	<4.44 (<1)
QQ-A-250/12 (Aluminium)	<4.44 (<1)
QQ-A-250/13 (Alclad)	<4.44 (<1)
Low temperature flexibility @ -54°C (-65°F) - No cracking or checking.	
Resistance to hydrocarbons - 7 days @ 60°C (140°F) immersed in AMS 2629 JRF.	

### PRC® Aerospace Sealants

PRC-DeSoto Europe, Ltd.  
 Darlington Road, Shildon  
 County Durham  
 DL4 2QP, England  
 Tel +44(0)1388 772541 Fax +44(0)1388 774373  
 email info.europe@prc-desoto.com

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A PPG Industries Company

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Weight loss, %	5.0
Flexibility - No cracks after bending 180 degrees over 3.18 mm (0.125 inch) mandrel.	

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**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.

### Surface preparation

To obtain uniform release of the cured 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 the appropriate solvents and 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.

### Mixing instructions

PR-1428 Class B is supplied in a two-part kit. 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 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-1428 Class B is at least 9 months when stored at temperatures between 5°C and 25°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 sales, ordering and technical information, please contact PRC-DeSoto**

All recommendations, statements, and technical data contained herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. User shall rely on his own information and tests to determine suitability of the product for the intended use and assumes all risks and liability resulting from his use of the product. Seller's and manufacturer's sole responsibility shall be to replace that portion of the product of this manufacturer which proves to be defective. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss, or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements other than those contained in a written agreement signed by an officer of the manufacturer shall not be binding upon the manufacturer or seller.