

### PR-1005-L Buna-N Slosh Coating

#### Description

PR-1005-L is an aircraft integral fuel tank slosh coating. It has a service temperature range from -100 °F (-73 °C) to 250 °F (121 °C), with intermittent excursions up to 275 °F (135 °C). This material is designed as topcoat or barrier coating. The cured coating is resistant to prolonged exposure to both jet fuel and aviation gas. This product is not recommended to fuels containing ethanol.

PR-1005-L is a one part, synthetic rubber solution. The uncured material is a thin syrup suitable for application by brush, fill-and-drain, dip or spray. It cures at room temperature by the evaporation of solvent to form a smooth, tough, flexible transparent film having excellent adhesion to common aircraft substrates and polysulfide sealants. The following tests are in accordance with AMS-S-4383 specification test methods.

#### Application properties (typical)

Color	Red
Viscosity (Brookfield #2 @ 10 rpm), Centipose (Pa-s)	900 (0.9)
Appearance; clear, uniform, free of skin, lumps and jelled or coarse particles	Conforms
Working properties; smooth, uniform, no film irregularities	Conforms
Dry time @ 77 °F (25 °C), 50% RH, mins	20
Toxicity	Non-toxic

#### Performance properties (typical)

Cured 2 days @77 °F (25 °C), 50% RH	
Specific gravity	0.85
Nonvolatile content, %	21
Peel strength, pli (N/25 mm), 100% cohesion	
JRF immersion, 7 days at 140 °F (60 °C)	
AMS-S-8802	22 (98)
AMS4049 (alclad)	30 (122)
Recoating properties - good bonding No lifting, blistering or loss of adhesion	
Low temperature flexibility @ -65 °F (-54 °C) - No cracking, checking or loss of adhesion	
Resistance to heat @ 180° F (82 °C) - No hardening, blistering, checking, shrinking or loss of adhesion	

Resistance to salt water and hydrocarbon -

No softening, blistering, leaching, apparent corrosion of the metal, or loss of adhesion

**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

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 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.

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.

#### Storage life

The storage life of PR-1005-L is at least 12 months when stored at temperatures below 80°F (27°C) in original unopened containers.

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## 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 on 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](http://www.ppgaerospace.com)

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

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.

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