

### PR-1826 B-2 ALO Aerodynamic smoothing and quick repair sealant

#### Description

PR-1826 B-2 ALO is a rapid cure, low odor, aerodynamic smoothing sealant. It has a service temperature range from 60 °C to 150 °F with intermittent excursions up to 215 °C. This material is designed for sealing aircraft structures, depression filling and smoothing application, and preventing faying surface corrosion from chemical cleaners and fuel spillage.

PR-1826 B-2 ALO is a two-part, epoxy-cured PERMAPOL® P-3 polythioether polymer. The uncured material is a low odor, thixotropic paste suitable for application by extrusion gun or spatula. The cured material has excellent adhesion to common aircraft substrates when correctly primed with PR-1826 Adhesion Promoter.

#### Application properties (typical)

|  |                                       |                        |                                    |
|--|---------------------------------------|------------------------|------------------------------------|
| Color  |                                       |                        |                                    |
| Part A   |                                       | White                  |                                    |
| Part B   |                                       | Aluminum grey          |                                    |
| Mixed  |                                       | Aluminum grey          |                                    |
|  |                                       |                        |                                    |
| Mixing ratio   |                                       | Part A:Part B          |                                    |
| by weight  |                                       | 8.5:100                |                                    |
|  |                                       |                        |                                    |
| Base viscosity   |                                       |                        |                                    |
|  | (Brookfield #7 @ 2 rpm), Poise (Pa-s) | 13000                  | (1300)                             |
|  |                                       |                        |                                    |
| Slump, inches (mm)                                     |                                       | 0.3                    | (8)                                |
|  |                                       |                        |                                    |
| Application life and cure time @ 73 °F (23 °C), 50% RH |                                       |                        |                                    |
|  | Application life (hours)              | Tack free time (hours) | Cure time to 30A Durometer (hours) |
| B-2  | 2                                     | 16                     | 36                                 |

#### Performance properties (typical)

|  |             |
|--|-------------|
| Nonvolatile content, %                         | 95          |
| Cured specific gravity                         | 1.47        |
| Ultimate cure hardness, Durometer A            | 50          |
|  |             |
| Peel Strength*, pli (N/mm), % cohesive failure |             |
| Standard Cure                                  |             |
| MIL-C-5541 (alodine aluminum)                  | 40 (7), 100 |
| AMS-C-27725 (polyurethane)                     | 40 (7), 100 |
| *Primed with PR-1826 Adhesion Promoter         |             |
|  |             |
| Tensile strength, psi, (MPa)                   |             |
| Standard Cure                                  | 500 (3.5)   |
|  |             |
| Ultimate Elongation, %                         |             |
| Standard Cure                                  | 300         |

Low temperature flexibility @ -85 ° F (-65 °C) - No cracking, checking or loss of adhesion.

Repairability, pli, % cohesive failure - Excellent to both freshly cured as well as fuel aged and abraded fillets when primed with PR-1826 Adhesion Promoter.

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

#### Surface preparation

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.

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After the surface has been cleaned, apply PR-1826 Adhesion Promoter with a clean brush or a gauze pad. Care must be taken to obtain a uniform thin coat. At standard temperature, allow the adhesion promoter to dry 30 minutes. It is not recommended to apply adhesion promoter below 45 °F (7 °C). The sealant must be applied within 8 hours of the application of the adhesion promoter. If this time is exceeded, the surface should be recleaned and the adhesion promoter reapplied. Do not use adhesion promoter if it contains particles or precipitate.

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-1826 B-2 ALO is supplied in a two-part SEMKIT<sup>®</sup> package. PR-1826 adhesion promoter is included in the kit. See container for sealant mixing instructions.

## Storage life

The storage life of PR-1826 B-2 ALO is 6 months when stored at temperature between 40 °F (5 °C) and 77 °F (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 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).**

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