

TECHNICAL DATA

PR-142 Adhesion Promoter

Description

PR-142 is an adhesion promoter to enhance the coupling characteristics of polysulfide compounds to a wide variety of substrates. PR-142 is particularly well-suited for use with sealants on aircraft windshield applications where substrate crazing is an issue.

PR-142 is a one-part compound suitable for application by brush or clean gauze.

The following tests are in accordance with PRC-DeSoto International specification test methods.

Application Properties (Typical)

| | |
|----------------------|-------------------|
| Color | Colorless |
| Appearance | Free of particles |
| Dry time, 30%-70% RH | |
| 77°F (25°C) | 15 minutes |
| 60°F (16°C) | 45 minutes |
| 40°F (4°C) | 45 minutes |

Performance Properties (Typical)

| | |
|--|--------------------------|
| Specific gravity | 0.80 |
| Flash point, PMCC | 65°F (18°C) |
| Effects on finishes | Does not soften finishes |
| Peel strength*, pli (N/25 mm), 100% cohesion | |
| Dry, 14 days at 77°F (25°C) | |
| 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) |

*Tested with PR-1425 B-2 windshield and canopy sealant.

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 adhesion promoter 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.

Application Instructions

Apply a thin coat of PR-142 to the solvent cleaned surface by brush or clean gauze pad and allow to dry for the required dry time. After dry time, wipe off excess PR-142 with a clean gauze pad and start the sealing procedure. If primed surface becomes contaminated or sealing is not accomplished within 8 hours after application of the adhesion promoter, repeat priming procedure.

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-142 is supplied in one component bottles or Sempen® applicators.

Storage Life

The storage life of PR-142 is at least 6 months when stored at temperatures below 80°F (27°C) in original, unopened containers. The material is hygroscopic and must be kept free of moisture. It should be discarded if it becomes cloudy or particles are visible.

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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 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

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

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