

TECHNICAL DATA

PR-187 Adhesion Promoter

Description

PR-187 is an adhesion promoter to enhance the coupling characteristics of polythioether compounds to a wide variety of substrates. This adhesion promoter is recommended when a PR-1800 polythioether sealant is to be applied over a polysulfide material.

PR-187 is a one-part compound suitable for application by brush or clean gauze. The material dries at room temperature in approximately 30 minutes.

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

Application Properties (Typical)

Color	Clear green solution
Appearance	Free of particles
Dry time @ 77°F (25°C), 50% RH, mins	30

Performance Properties (Typical)

Specific gravity	1.10
Effects on finishes	Does not soften finishes
Peel strength*, pli (N/25mm), 100% cohesion	
Dry	
MIL-A-8625 (Anodized aluminum)	65 (289)
MIL-C-5541 (Alodine aluminum)	63 (280)
MIL-C-27725 (IFT Coating)	68 (302)
JRF immersion, 7 days at 140°F (60°C)	
MIL-A-8625 (Anodized aluminum)	35 (156)
MIL-C-5541 (Alodine aluminum)	40 (178)
MIL-C-27725 (IFT Coating)	37 (165)
NaCl-H ₂ O immersion, 7 days at 140°F (60°C)	
MIL-A-8625 (Anodized aluminum)	52 (231)
MIL-C-5541 (Alodine aluminum)	42 (187)
MIL-C-27725 (IFT Coating)	3 (191)

*Tested with PR-1829 series polythioether 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.

Apply a thin coat of PR-187 to the solvent-cleaned surface by brush or clean gauze and allow to dry for approximately 30 minutes at standard temperature. 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.

Storage Life

The storage life of PR-187 adhesion promoter is at least 9 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.

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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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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