

TECHNICAL DATA

PR-188 Universal Sealant Adhesion Promoter

Description

PR-188 is a sealant adhesion promoter that is suitable for use with both PRC® and Pro-Seal™ brand sealants. This product enhances the adhesion of both polysulfide, and Permapol® polythioether based sealants to standard aerospace substrates.

This product is fully qualified to the AMS 3100 Class 2 specification. It has zero VOC's as currently defined by U.S. environmental regulations. PR-188 is a one-part compound suitable for application by brush or clean gauze. PR-188 is not appropriate for use on polycarbonate or acrylic substrates.

The following tests are in accordance with AMS 3100 Class 2 test methods.

Performance Properties (Typical)

Specific gravity	1.28
Flash point, PMCC	60°F (16°C)
Effect on finishes	Does not soften finishes

Application Properties (Typical)

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

Application Properties

Peel strength, pli (N/25 mm), 100% cohesion using PR-188

Specification	AMS 3277	AMS-S-8802 Type I	AMS 3281	AMS 3276
Product	PR-2001	BPR-1422 B	PR-1776M B	PR-1750 B
Immersion conditions	JRF/NaCl-H ₂ O 7 days @140°F	JRF/NaCl-H ₂ O 7 days @140°F	JRF/NaCl-H ₂ O 7 days @140°F	JRF/NaCl-H ₂ O 7 days @140°F
Substrate				
MIL-C-27725 (Polyurethane)	28 (125)	53 (236)	39 (173)	60 (267)
MIL-C-27725 (Aged Polyurethane)	47 (208)	49 (218)	44 (196)	33 (147)
AMS 4911 (Titanium)	26 (116)	47 (209)	39 (174)	55 (245)
	NaCl-H ₂ O 7 days @140°F	NaCl-H ₂ O 7 days @140°F	NaCl-H ₂ O 7 days @140°F	NaCl-H ₂ O 7 days @140°F
MIL-PRF-23377 (Epoxy primer)	39 (174)	54 (240)	38 (169)	69 (307)
MIL-P-85582 (Water Based Primer)	44 (196)	58 (258)	33 (147)	76 (338)

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

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Surface Preparation

Immediately before applying adhesion promoter to substrates, the surfaces should be cleaned with solvents. Contaminants such as dirt, grease, and/or processing lubricants must be removed prior to adhesion promoter 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-188 to the solvent-cleaned surface with clean gauze and allow to dry for approximately 30 minutes at standard temperature. After drying time, wipe off excess PR-188 with a clean gauze pad and start the sealant procedure. If surface becomes contaminated or sealing is not accomplished with 4 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-188 is at least 9 months when stored at temperatures below 80°F (27°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 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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