

TECHNICAL DATA

PR-1448 Void Filling Compound

Description

PR-1448 is a two-part, thixotropic, polysulfide based, void filling compound, which exhibits low shrinkage, excellent low temperature flexibility, good adhesion and resistance to fuels, oils, grease and salt water. It is an effective pressure and fuel resistant compound and does not flow or extrude when subjected to 6.5 psi pressure at a temperature of 160°F. Excellent non-sag characteristics allow for vertical filling of gaps and recesses.

When the base compound is mixed thoroughly with the accelerator, the material cures at room temperature to a firm, rubbery solid. Since the cure of PR-1448 does not depend on air exposure, this product can be applied in voids, gaps, etc. and covered with subsequent coating without affecting its cure.

Application Properties (Typical)

Color	
Part A	Black
Part B	Beige
Mixed	Black
Mixing ratio	
By weight	Part A: Part B 10:100
By volume	7.56:100
Slump, inches (mm)	0.1 (2.5)
Application Life, Class B-2, g/min, minimum 0.20"	29
Nozzle @ 90 psi after 2 hours	
Application Life, Class D-4*, mm, minimum after 4 hours @ 77°F (Using Penetrometer)	110

****Same as Class B-4 material; qualifying specification (BMS5-16) designates it as Class D-4***

Performance Properties (Typical)

Cured 14 days @ 77°F (25°C), 50% RH	
Cured specific gravity	1.5
Nonvolatile content, %	97
Cure hardness, Durometer A, after 72 hours	30

Shear Strength, psi (minimum), % Cohesive Failure

Alcad (QQ-A-250/13)	106, 95
Epoxy Primer (BMS 10-11)	136, 95

Resistance to salt water and hydrocarbons - No softening, loss of adhesion, or corrosion of metal

Resistance to heat - no hardening, blistering, or loss of adhesion

Low temperature flexibility @ -65°F (-54°C) - No cracking, checking or loss of adhesion.

Fungus resistance Non-nutrient

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 sub-strates, 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 redistribution of contaminants on the substrate.

Substrate composition can vary greatly. This can affect sealant adhesion. It is recommended that adhesion characteristics to 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.

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Packing Options

PR-1448 is supplied in a two-part Semkit[®] package, two-part can kit, and pre-mixed and frozen cartridge.

Mixing Instructions

Mix according to the ratio indicated in the application properties section. Mix Part A and Part B separately to uniformity, then thoroughly mix entire contents of both parts of the kit together taking care to avoid leaving unmixed areas around the sides or bottom of the mixing container.

Storage Life

The standard storage life PR-1448 in a Semkit[®] package or can kit is at least 6 months when stored at temperature of 80°F or below in original, unopened containers.

The storage life of PR-1448 pre-mixed and frozen cartridges is 30 days when stored at temperatures of -40°F or below.

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 exposure.

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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