

TECHNICAL DATA

PR-1995 Class B Primerless, Two-Part Firewall Sealant

Description

PR-1995 Class B is a primerless two-part, firewall sealant based on silicone polymer. This material is designed for sealing firewall structures against the passage of air and vapors. The cured compound has a service temperature from -65°F (-54°C) to 400°F (204°C) and will withstand flash temperatures up to 3500°F (1927°C).

PR-1995 Class B will remain an effective sealant after long-term exposure to phosphate ester based hydraulic fluids.

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

Application Properties (Typical)

Color	
Part A	Gray
Part B	Gray
Mixing ratio	Part A:Part B
By weight	10:100
Slump, inches (mm)	
Initial	0.15 (3.8)
Application life, hours	2
Cure time @ 77°F (25°C),	
Durometer A	
24 hrs	35
7 days	50

Performance Properties (Typical)

Cured specific gravity	1.62
Nonvolatile content, %	98
Peel strength, pli (N/25 mm), 100% cohesion	
Dry, 7 days @ 77°F (25°C)	
Mil-C-27725	7 (31)
Shear strength, psi (KPa), 100% cohesion	
7 days @ 77°F (25°C)	300 (2070)
7 days @ 77°F (25°C) +	
7 days @ 400°F (204°C)	170 (1173)
Tensile strength, psi (KPa)	
30 days @ 77°F (25°C), 50% RH	350 (2415)
7 days immersion in phosphate ester	250 (1720)
Elongation, %	
30 days @ 77°F (25°C), 50% RH	110
7 days immersion in phosphate ester	100
Low temperature flexibility	
7 days @ -65°F (-54°C)	
@ 400°F (204°C)	No cracking
Flame resistance	
2000°F (1093°C), 15 minutes	No flame penetration
3500°F (1927°C), 3 minutes	No flame penetration

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 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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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-1995 Class B is supplied in two-part can kits, Semco® cartridges, and pre-mixed and frozen Semco® cartridges.

Mixing Instructions

PR-1995 Class B is supplied in a two-part kit. Mix according to the ratios 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 storage life of PR-1995 Class B stored in two-part can kits and Semco® cartridges is at least 9 months when stored at temperatures below 80°F (27°C) in original, unopened containers.

The storage life of PR-1995 Class B in pre-mixed and frozen Semco® cartridges is at least 30 days when stored at temperatures below -40°F (-40°C).

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.

For emergency medical information call 1-800-228-5635.

Additional information can be found at: www.ppgaerospace.com

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

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