

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 Northrop's MS-433 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)	200 (1380)

Tensile strength, psi (KPa)	
30 days @ 77°F (25°C), 50% RH	400 (2760)
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

To obtain good adhesion to metallic surfaces, parts should be cleaned with solvents to remove dirt, grease, and processing lubricants used in manufacturing.

Just prior to sealant application to chemically treated, and/or chemically treated and primed with epoxy or urethane primers, the surfaces should be cleaned with solvent, with oil and soap-free rags or paper towels. (Reclaimed solvents or Kim-wipe paper should not be used.) A progressive cleaning procedure should be used. Wash one small area at a time, then dry with a clean cloth before the solvent evaporates to prevent redeposition of oil, wax or other surface contaminants.

To maintain a clean solvent supply, always pour the solvent on the wash cloth.

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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 is at least 6 months when stored at temperatures below 80°F (27°C) in the 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.

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

For sales and ordering information call 775-323-7542

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.