

TECHNICAL DATA

PR-2070 LS1 Flame Retardant, Pourable Self Leveling Compound

Description

PR-2070 LS1 is a two part, flexible, flame retardant, pourable self leveling compound used for filling small pockets of aircraft structures to aid in the drainage of water and other fluids. It has a service temperature range of -65°F (-54°C) to 160°F (71°C). The cured sealant has good resistance to water and hydraulic fluid and does not contain decabromodiphenyl ether (decaDBE). It is not intended for fuel tank applications.

The following tests are in accordance with BMS5-125 specification test methods.

Properties (Typical)

Color	
Part A	Black
Part B	White
Mixing ratio	Part A:Part B
By weight	53.3:100
Viscosity	
(Brookfield #7 @ 10 rpm),	
Poise (Pa-s)	
Base	280 (28)
Accelerator	6 (.6)
Inclined block flow, inch	1.6
Modified flow, minute	<3
Tack free time, hour	
77°F (25°C), 50% RH	4
Cure time to 30A Durometer, hour	
77°F (25°C), 50% RH	8
Flammability, 12-second vertical	
Extinguishing time, second	2
Burn length, inch	1
Drip extinguishing time, second	0
Lap shear strength, psi	
Unconditioned	
BMS10-11 IA	117
BMS10-11 IIA	125
Alodine 1200	116
Conditioned (7 days @ 75°F + 7 days @ -65°F in LD-4 hydraulic fluid)	
BMS10-11 IA	117
BMS10-11 IIA	118
Alodine 1200	118

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 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 redeposition of contaminants on the substrate.

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

Mixing Instructions

Mix PR-2070 LS1 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-2070 LS1 is at least 9 months when stored at temperatures between 60°F-80°F in original, unopened containers.

The storage life of PR-2070 LS1 pre-mixed and frozen cartridges is 42 days when stored at temperatures of -80°F or below.

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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).**

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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