

P/S 501 mylar adhesive

Description

P/S 501 is a mylar adhesive. It has a service temperature range from -65°F (-54°C) to 160°F (71°C). The material is designed for enhancing adhesion to a wide range of bonding applications.

P/S 501 is a two-part, epoxy cured polysulfide compound. The uncured material is a trowable paste suitable for application by spatula or extrusion gun.

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

Application properties (typical)

Color	
Part A	Clear
Part B	Amber
Mixed	Translucent
Mixing ratio	Part A:Part B
By weight	30:100
Base viscosity	
(Brookfield #7 @ 10 rpm),	
Poise (Pa-s)	1,500 (150)
Application life and cure time @ 77°F (25°C), 50% RH	
	Cure time
Application	to 30 A
life	Durometer
(hours)	(hours)
1.5	24

Performance properties (typical)

Cured 3 days @ 77°F (25°C), 50% RH	
Cured specific gravity	1.27
Nonvolatile content, %	96
Ultimate cure hardness,	
Durometer A	50
Peel strength, pli (N/25 mm), 100% cohesion	
Aluminum	20 (89)
Nylon/Aluminum	5 (22)
Mylar	10 (44)
Tensile strength, psi (KPa)	350 (2413)
Elongation, %	250

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 adhesive 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.

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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 product adhesion. For adhesion to mylar or nylon the substrate surface should be lightly abraded. This should be followed by cleaning the surface with solvent. 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

P/S 501 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 P/S 501 is at least 12 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.

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.