

TECHNICAL DATA

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	
Application life (hours)	Cure time to 30 A Durometer (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.

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.

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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.

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

**Additional information can be found at:
www.bergdahl.com**

**For sales and ordering information call
775-323-7542**

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