



PR-2936 liquid shim adhesive

Description

PR-2936 Shimlant-Adhesive is a two component, bi-functional (liquid-shim and adhesive) product exhibiting outstanding mechanical strength and micro-cracking resistance across a wide operating temperature window. This product has been designed to provide gap filling up to 2mm with high mechanical strength combined with flexibility for outstanding toughness.

PR-2936 is available in preformed parts using PPG's proprietary Ambient Reactive Extrusion (PPG ARE™) additive printing technology.

Product features

- Room temperature cure
- Outstanding mechanical properties
- Low-slump
- Supplied in plural component cartridges with static mixer tubes

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

Unmixed, uncured properties

	Base	Hardner
Chemistry	Epoxy	Amine
Color, visual	Gray	Black
	60,000	8,000
Brookfield Viscosity HBT, poise	Spindle #7 @1 RPM	Spindle #7 @2 RPM
Mixing ratio,		
by volume	4	1
by weight	100	16.3

Mixed, uncured properties

	Mixed paste
Color	Gray
Viscosity	Paste
Flow, inches, @77° F	0.13
Slump resistance, ASTM D2202	PASS
Pot life, minutes, @77° F	60

Cured performance properties

Cured 5 days @ 77°F	Cured paste
Color	Gray
Micro-cracking	No visible cracking to unaided eye

Bond Strength Testing ATM D3933, BR-127 primer + PPA 2024-T3 clad aluminum

Temperature of Test	-67°F	77°F	190°F
Lap shear, psi	2000	2292	2437

Compression and Modulus ASTM D695 0.5" OD x 1.0" L rod specimens

Temperature of Test	77°F	190°F
Modulus, ksi	1525	783
Strength at 2% strain, ksi	20.7	13.8

Note: The uncured and cured 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 configuration

PR-2936 liquid shim adhesive

Storage life

The storage life of PR-2936 is at least 12 months when stored at less than 77°F in the original unopened container.

Surface preparation

Progressively clean surface with approved solvent. A progressive cleaning procedure should be employed using appropriate solvents and a 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. The composition of substrates can differ significantly, impacting the effectiveness of adhesives. 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 15096-000

Health precautions

This product is safe to use and apply when recommended precautions are followed. Before using this product, read and understand the Safety Data Sheet (SDS), which provides information on health, physical and environmental hazards, handling precautions and first aid recommendations. An SDS 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).

Semco is a trademark of PRC-DeSoto International Inc., registered with the U.S. Patent Office.

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.

This document has been reviewed by the PPG's Aerospace Export Control Department and has been determined to contain only EAR99 controlled data.

PRC-DeSoto International, Inc.
12780 San Fernando Road
Sylmar, CA 91342
Telephone (818) 362-6711
Toll Free (800) AEROMIX
www.ppgaerospace.com

Issue Date: 02/24
Supersedes: New
Lit: 4878