

TECHNICAL DATA

CA 1000V Non-Chromate Corrosion Inhibitive Jointing Compound

Description

CA 1000V is a non-curing, non-chromate corrosion inhibitive compound. It has a service temperature range from -65°F (-54°C) to 240°F (116°C), with intermittent excursions up to 275°F (135°C). This material acts as an effective barrier against the common causes of corrosion on aluminum alloys or between dissimilar metals. The compound remains permanently mastic after prolonged exposure to aircraft fuels, both jet fuel and aviation gas.

CA 1000V is a one-part, epoxy capped, Permapol[®] polysulfide compound. The material is a thixotropic paste suitable for application by brush or spatula.

CA1000V is violet tinted version of CA1000 to enable easy differentiation to white greases/lubricants currently in use by major OEMs

The following tests are in accordance with PRC-DeSoto standard and AIMS 04-05-005 specifications.

Application Properties (Typical)

Colour	violet
Appearance Uniform composition, no lumps	or separated material
Viscosity (Brookfield #7 @ 2 rpm), Poise (Pa-s)	950 (95)
Squeeze test, inches (mm)	7.1 (180)

Performance Properties (Typical)

Specific gravity	1.34
Nonvolatile content, %	88
Pigment contents, %	15
Fineness of grind, Hegman	<u>≤</u> 5
Flash point °F (°C), [Closed cup (SETA)]	85°F (29°C)
Solubility in water @ 73°F (23°C)	None
Exposure to heat @ 104°F (40°C), 95% R.H. for 1000 hours Aluminum/Stainless steel - Easy re no corrosion Graphite/Aluminum - Easy remov	
Exposure to dry heat @ 239°F (115°C) Easy removal, compound still tacky) for 1000 hours
High temperature flow 20 mils, 24 hour	s @ 158°F (70°C)
Dry Immersion in 3.0% NaCI-H ₂ O Immersion in AMS 2629 JRF	No flow No flow No flow
Fuel resistance (10 mils), % weight g	ain,
Fuel resistance (10 mils), % weight g 7 days @ 120°F (49°C) Immersion in AMS 3629 JRF Immersion in MIL-H-5606	ain, 1.80
7 days @ 120°F (49°C) Immersion in AMS 3629 JRF	

Corrosion test by galvanic cell method

Aluminum/Titanium couple, 2 weeks - No signs of corrosion or sealant deterioration.

Aluminum/Stainless steel couple, 2 weeks - No signs of corrosion or sealant deterioration.

Aluminum/Cadmium plate steel couple, 2 weeks - No signs of corrosion or sealant deterioration.

Note: The application and performance property val ues 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.

CA 1000V Non-Chromate Corrosion Inhibitive Jointing Compound

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 appropriate solvents and a new lint-free cloth conforming to AMS 3819. (Reclaimed solvents or tis- sue paper should not be used.) Always pour solvent on the cloth to avoid contaminating the solvent sup- ply. 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.

Packing Options

CA 1000V is supplied in 1 part 6 oz. Semco® cartridges.

Mixing Instructions

CA 1000V is supplied in a 1 part 6 oz. Semco® cartridge. Mixing is not required.

Storage Life

The storage life of CA 1000V 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.

Additional information can be found at: www.ppgaerospace.com

Permapol and Semco are trademarks 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 war ranty, 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 manu facturer'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 dam- age 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. PPG Aerospace Sealants and Coatings Darlington Road Shildon, Co Durham UK DL4 2QP www.ppgaerospace.com

Issue Date: 02/16 Lit: 4504