

### DesoGel EAP-9

## Chromate Free Conversion Coating & Adhesion Promoter

### Description

DesoGel EAP-9 provides an effective, environmentally friendly and easy to apply alternative to traditional chromated conversion coatings. EAP-9 dries to a thin, clear, durable coating that provides protection to the metal and adhesion to the organic coating. Its non-hazardous/non-regulated composition and dry in place application method eliminates two concerns of chromated solutions: exposure to hexavalent chromium and production of large volumes of contaminated rinse water. EAP-9 has proven to virtually eliminate rivet rash and adhesion issues when used as recommended. EAP-9 is the recommended adhesion promoter for use under Desothane® CA 7700 series, CA 7502 and CA 7502E primers.

### Specifications

- BMS 10-128 Type 1 Class A, Grade A
- DeSoto® Standard

### Material properties

- Clear, slightly cloudy liquid
- Slight odor
- 3.5 - 4.0 pH (mixed)
- Specific Gravity of 1.0
- Vapor Pressure <1 mm/HG
- VOC under 20 grams per liter
- Non-Hazardous/Non-Regulated
- No Flashpoint
- 12 Month Shelf Life (BMS & DeSoto® standard)

### Surface Preparation

Prior to use of EAP-9, the surface must be cleaned. A variety of methods are available for surface preparation. One method is alkaline cleaning with ED-500 at a 1:1 dilution ratio and manual abrasion using red Scotch-Brite™ pads.

In all cases, a water break-free surface must be established before application of the EAP-9. Minimize handling of surface prior to application of DesoGel to ensure good contact.

### Application Characteristics

- Induction time: 30 minutes
- Pot Life: 24 hours
- Surface Exposure to Liquid Product: 5-10 minutes
- Dry to Prime at Ambient: 60 minutes (exact time dependent upon environmental conditions and part geometry)
- Dry to Prime at Elevated Temperature: 30 minutes
- Maximum length between EAP application and priming 72 hours

### Application Techniques

EAP-9 may be sprayed or wiped on surface. The objective in both cases is to create a uniform surface exposure with minimal accumulation of excessive material. Puddling or accumulation of material in crevices, ridges and other potential entrapment areas may affect the subsequent sol-gel coating.

If spraying the solution, delivery systems include HVLP, airless sprayers, and hand pump sprayers. Tip selection should be based upon creating as fine a mist as possible. Allow any excess material to drain from surface for 5-10 minutes, then remove accumulation using compressed air or a clean cloth to blot those areas with visible puddles of EAP-9. Cloths should be pretreated with fresh EAP-9 to prevent significant absorption of material from thinly coated areas. Avoid extended exposure of uniform areas to compressed air stream. Avoid, if possible, transferring material through splattering or dripping of excess solution back to areas with a uniform coat.

If wiping EAP-9 on the surface, use clean cheesecloth or non-woven fabric to apply the material in as uniform a fashion as possible. There should be no evidence of application patterns on surface. Do not mechanically agitate the surface with a brush or Scotch-Brite™ pad. Follow the same procedures for eliminating accumulations of material from surface.

Once applied, reduce handling to a minimum to avoid contaminating EAP-9 as drying occurs. It may be necessary to cover or otherwise protect the surface during the dry to prime period. Significant contamination may require reapplication of material in affected areas; consult the PPG Aerospace Surface Solutions EAP Application Guide for further, more specific recommendations.

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### Typical Application Areas for each Kit

<b>Pint</b>	<b>100 sq. ft.</b>
<b>Quart</b>	<b>200 sq. ft.</b>
<b>Gallon</b>	<b>800 sq. ft.</b>
<b>5 Gallon Pail</b>	<b>4,000 sq. ft.</b>
<b>55 Gallon Drum</b>	<b>44,000 sq. ft.</b>

### Mixing Instructions

Add Part B (small container) to Part A (large container). Stir.

### Safe Handling Recommendations

When mixed, EAP-9 is a safe, non-hazardous material. As with any chemical, proper precautions should be followed in its handling. Prior to mixing, an organic acid catalyst is used to activate the solution and proper protective gear, safety glasses and chemically resistant gloves, should be worn when mixing the two solutions. Consult the EAP-9 Part A and Part B MSDS for further guidance on proper procedures.

### 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](http://www.ppgaerospace.com)**

**For sales and ordering information call  
1-800-AEROMIX (237-6649).**

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