

DESCRIPTION

### **General Industrial Coatings**

# CC-M44-B

## MIL-DTL-53039E, Type IV 1K Aliphatic Polyurethane, 1.0 Lbs./Gal. VOC Chemical Agent Resistant Coating

Air Quality Data:

#### **CHARACTERISTICS**

		Photochemically Reactive
MIL-DTL-53039E, Type IV coatings are single component, 1.0 lbs./gal. *VOC, VOHAP free compliant, moisture cure	60° Gloss:1.0 unit max.85° Gloss:3.5 units max.	Volatile Organic Compounds (VOC, less exempt solvents, maximum): 1.00 lbs./gal., 120 g/L
aliphatic polyurethane chemical agent resistant coatings (CARC) for military equipment. They can be effectively decontaminated after exposure to liquid chemical agents	Volume Solids:         56.6 ± 2 %           Viscosity (at 77° F):         55-65 Krebs Units 15-25 secs., #3 Zahn Cup	<b>Recommended Storage:</b> Inside, sealed container, 40-120° F, no freeze hazard. Protect from moisture.
Advantages:	Recommended Film Thickness: Mils Wet 3.5-5.5 Mile Day 2.0.2.0	Package Life:         18 months, unopened           Inside storage
Mile DTL-53039F Type IV	VIIIS DI y 2.0-3.0	SPECIFICATIONS
<ul> <li>Passes 800 hours ASTM G154 accelerated weathering using a UV 340A light source</li> <li>Single component</li> <li>Fast solvent and water resistance</li> <li>Excellent exterior durability</li> <li>Complies with 1.0 *VOC solvent emissions</li> <li>VOHAP free</li> <li>Free of lead and chromate hazards</li> <li>Where Aircraft Black, color #37038, or Aircraft Interior Black, color #37031, are specified for use, Black, color #37030 is authorized as an alternative replacement (MIL-DTL-53072F, Section 3.7, Note r)</li> <li>The following MIL-DTL-53039E, Type IV products are approved by the U.S. Army Research Lab, Aberdeen Proving Grounds, Aberdeen, MD:</li> <li>Sherwin-Williams QPD F93B704 Q2315</li> </ul>	<ul> <li>Spreading Rate (no application loss): 454 ft.²/gal. at 2.0 mils DFT</li> <li>Cure: Air Dry Force Dry 60 mins. flash, 30 mins. at 140° F</li> <li>The force dry schedule above is provided as a guide. Wet film thickness, humidity, flash off time, part size and oven characteristics will all have an effect on drying and cure. Test for your specific application and line conditions.</li> <li>Substrate Disclaimer: Curing of coating at temperatures higher than the heat distortion parameters of the substrate may cause substrate issues.</li> <li>Drying: 2.0 mils DFT at 77° F, 50% RH To Touch 30-60 minutes To Dry Hard 3 hours Through-Dry 4 hours To Recoat w/ Itself 30-60 minutes Total (Full Properties) 7-10 days</li> </ul>	Cleaning & Pretreatments Follow the most current revisions of MIL- DTL-53072 and/or TT-C-490 for required cleaning and pretreatment application before coating. Note: See the current MIL-DTL-53072 for complete details regarding substrate preparation, coatings, and application. General: All substrates should be free of mold release, oil, grease, dirt, fingerprints, drawing compounds, surface passivation treatments and any other contaminants to ensure optimum adhesion and coating performance. For non-military uses, consult Metal Preparation brochure CC-T1 for additional details.
	Potlife (at 77° E): *8 hours	
<ul> <li>* VOC Compliance limits vary from state to state; please consult local Air Quality rules and regulations.</li> <li>An Environmental Data Sheet is available from your local Sherwin-Williams facility or at www.PaintDocs.Com.</li> </ul>	*Potlife Disclaimer: Potlife listed applies to containers which have been opened & exposed to air. It is highly recommended to maintain an argon or nitrogen blanket over the product at all times to ensure a prolonged pot life. Flash Point: 113° F (Pensky Martens Closed Cup)	<b>Testing:</b> The information, data, and recommendations set forth in this Product Data Sheet are based upon test results believed to be reliable. However, due to the wide variety of substrates, substrate properties, surface preparation methods, equipment and tools, application methods, and environments, the customer should test the complete system for adhesion, compatibility, and performance prior to full scale application.

#### **APPLICATION**

Typical Setups

The paint must be shaken for a minimum of 15 minutes prior to use. This ensures that the product is homogenous for application.

For all application and usage guidelines, please consult and review the MIL-DTL-53072 & TT-C-490 specifications as well as your local Sherwin- Williams representative.

**Cleanup:** Clean tools/equipment immediately after use with R6K9 (Acetone), R6K10 (MEK), R6K16 (MIBK), R6K30 (MAK), R6K38 (Tertiary Butyl Acetate), R91K20 (MIL-T-81772 Type I) or any Polane reducer. A blend of MIBK/Xylene (R2K4) or may also be used.

Follow manufacturer's safety recommendations when using any solvent.

### **PRODUCT LIMITATIONS**

- 1. This product must be properly agitated before using. Material agitation should be followed throughout application to maintain its homogenous state.
- 2. Surface preparation is important for coating performance.
- 3. If parts have been primed for longer than 7 days, they must be sanded and recoated with a mist coat of E90A228 before topcoating for good adhesion.
- 4. Due to the wide variety of substrates, surface preparation methods, application methods, and environments, the customer should test the complete system for adhesion and compatibility prior to full scale application.
- 5. Product needs to be protected from moisture.

#### **CAUTIONS**

### FOR INDUSTRIAL SHOP APPLICATION ONLY

Thoroughly review the product label and Safety Data Sheet (SDS) for safety information and cautions prior to using this product.

To obtain the most current version of the Environmental Data Sheet (EDS), Product Data Sheet (PDS), or Safety Data Sheet (SDS) please visit your local Sherwin-Williams facility or <u>www.PaintDocs.Com</u>.

Please direct any questions or comments to your local Sherwin-Williams facility.

#### Note:

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