

General Industrial Coatings

CC-M44-H

Tan 686A, 33446.....F93H704

MIL-DTL-53039E, Type IV 1K Aliphatic Polyurethane, 1.0 lb/gal VOC **Chemical Agent Resistant Coating**

DESCRIPTION

MIL-DTL-53039E, Type IV coatings are 60 single component, 1.0 lbs./gal. *VOC, 85 VOHAP free compliant, moisture cure Vo aliphatic polyurethane chemical agent resistant coatings (CARC) for military equipment. They can be effectively Vis decontaminated after exposure to liquid chemical agents.

Advantages:

- · Meets all the performance properties of MIL- DTL-53039E, Type IV.
- Passes 800 hours ASTM G154 accelerated weathering using a UV 340A light source
- · Single component
- · Fast solvent and water resistance
- · Excellent exterior durability
- Complies with 1.0 *VOC solvent emissions.
- VOHAP free
- · Free of lead and chromate hazards

The following MIL-DTL-53039E, Type IV products are approved by the U.S. Army Research Lab, Aberdeen Proving Grounds, Aberdeen, MD:

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Sherwin-Williams QI	PD	Drying: 2.0 mils	DFT at 77° F, 50%
F93H704 Q2	308	To Touch	30-60 mir
		To Dry Hard Through-Dry	3 h 4 h
		To Recoat w/ Itself	
		Total (Full Properti	es) 7-10
		Shake products	well before using.
		Potlife (at 77° F):	*8 ł
		*Potlife Disclaimer: containers which have b air. It is highly recomme or nitrogen blanket over ensure a prolonged pot	been opened & exposinded to maintain an the product at all tin
* VOC Compliance limits vary from state to state; please consult local Air Quality rules and regulations.		Flash Point: (Pensky Martens C	10 Closed Cup)
An Environmental Data Shee from your local Sherwin-Williar www.PaintDocs.Com.			

CHARACTERISTICS		Air Quality Data: Photochemically Reactive	
60° Gloss: 85° Gloss:	1.6 unit max. 4.0 units max.	Volatile Organic Compounds (VOC, less exempt solvents, maximum): F93H704 1.00 lbs./gal., 120 g/L	
Volume Solids: $57.4 \pm 2 \%$		Recommended Storage: Inside, sealed container, 40-120° F, no freeze hazard. Protect from moisture.	
Viscosity (at 77° F): 55-65 Krebs Units 15-25 secs., #3 Zahn Cup			
Recommended Film Th Mils Dry	ickness: 2.0-3.0	Package Life: 18 months, unopened Inside storage	
Spreading Rate(no application loss):F93H704461 ft.²/gal. at 2.0 mil DFT		SPECIFICATIONS	
Cure: Air Dry Force Dry 60 mins. flash, 30 mins. at 140° F		CLEANING & PRETREATMENTS Follow the most current revisions of MIL- DTL-53072 and/or TT-C-490 for required cleaning and pretreatment application before coating.	
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.		Note: See the current MIL-DTL-53072 for complete details regarding substrate preparation, coatings, and application.	
Substrate Disclaimer: Curing of coating at temperatures higher than the heat distortion parameters of the substrate may cause substrate issues.		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.	
Drying:2.0 mils DFT at 77° F, 50% RHTo Touch30-60 minutesTo Dry Hard3 hoursThrough-Dry4 hoursTo Recoat w/ Itself30-60 minutesTotal (Full Properties)7-10 days			
Shake products wel	l before using.		
Potlife (at 77° F):	*8 hours		
*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.		Testing: 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	
Flash Point: 101° F (Pensky Martens Closed Cup)			

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.

<u>CAUTIONS</u>

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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