



General Industrial Coatings

CC-M44-G

MIL-DTL-53039F, Type IV 1K Aliphatic Polyurethane, 1.0 Lb/Gal VOC Chemical Agent Resistant Coating

Green 383, 34094.....F93G704

DESCRIPTION

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

Advantages:

- Meets all the performance properties of MIL- DTL-53039F, 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
- Formulated to meet 1.0 *VOC solvent emissions, less exempts
- Formulated to be VOHAP free

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

Sherwin-Williams	QPD
F93G704	Q2339

* VOC Compliance limits vary from state to state; please consult local Air Quality rules and regulations.

An Environmental Data Sheet is available from your local Sherwin-Williams facility or at www.PaintDocs.Com.

CHARACTERISTICS

60° Gloss: 1.0 unit max.
85° Gloss: 3.5 units max.

Volume Solids: 56.7 ± 2 %

Viscosity (at 77° F): 55-65 Krebs Units
15-25 secs., #3 Zahn Cup

Recommended Film Thickness:
Mils Dry 2.0-3.0

Spreading Rate: 455 ft.²/gal. at 2.0 mil DFT
(no application loss)

Cure:
Air Dry
Force Dry 60 mins. flash, 30 mins. at 140° F

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.

Substrate Disclaimer: Curing of coating at temperatures higher than the heat distortion parameters of the substrate may cause substrate issues.

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

Shake products well 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.

Flash Point: 107° F
(Pensky Martens Closed Cup)

Air Quality Data:

Non-Photochemically Reactive
Volatile Organic Compounds
(VOC, less exempt solvents, maximum):
1.00 lbs./gal., 120 g/L

Recommended Storage: Inside, sealed container, 40-120° F, no freeze hazard. Protect from moisture.

Package Life: 18 months, unopened
Inside storage

SPECIFICATIONS

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.

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 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 per MIL-DTL-53072 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.**

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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 www.PaintDocs.Com.

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

Note:

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