Product Finishes

CC-M24

MIL-DTL-53039E, Type III

1K Aliphatic Polyurethane 1.5 VOC, VO-HAPS FREE Polymeric Flattened Chemical Agent Resistant Coating

Green 383, 34094 ..... F93G110	Tan 686A, 33446..... F93H115	Sand, 33303 ..... F93H119
Black, 37030..... F93B111	Brown 383, 30051 ..... F93N110	Aircraft Red, 31136 ..... F93R100

DESCRIPTION

MIL-DTL-53039E, Type III coatings are single component moisture cure aliphatic polyurethane chemical agent resistant coatings (CARC) for military equipment. They conform to MIL-DTL-53039E Type III performance specifications. They can be effectively decontaminated after exposure to liquid chemical agents.

Advantages:

- Single component
- 1.5 lb/gal VOC*
- VO-HAPS FREE
- Fast solvent and water resistance
- Very responsive to force curing
- Reduces waste
- Low viscosity
- Smooth finish
- Excellent exterior durability

The following 1.5 VOC Polymeric MIL-DTL-53039E Type III colors are approved by U.S. Army Research Lab, Aberdeen Proving Ground, Aberdeen, MD.

Sherwin-Williams	QPD#
F93B111	Q1789
F93N110	Q1911
F93G110	Q1913
F93H115	Q1711
F93R100	Q1905
F93H119	Q1973

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

CHARACTERISTICS

Gloss: **2 mils dry**
60° 3.0 units maximum
85° 8.0 units maximum
Refer to MIL-DTL-53039 for specific gloss requirements by color.

Recommended film thickness:
Mils Wet 4.0 - 6.0
Mils Dry 2.0 - 3.0

Air Dry (2.0 mils DFT, 70°F, 50% RH):
Dry To Touch: 15 minutes
Dry To Handle: 3 hours maximum
Dry Through: 4 hours maximum
Full Cure: 7 days
Force Dry: 20 min. @ 165°F, or 30 min. @ 145°F

The force dry schedules above are 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.

Flash Point: 95-105°F Pensky Martens Closed Cup

Pot Life: Once opened, use within 8 hours unless protected by a nitrogen or argon blanket

Package Life: 18 months, inside storage unopened

Air Quality Data:
Photochemically reactive
Volatile Organic Compounds (VOC)
as packaged, maximum
1.5 lb/gal, 180 g/L

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

SPECIFICATIONS

CLEANING & PRETREATMENTS
Follow the most current revisions of MIL-DTL-53072 and/or TT-C-490 for required cleaning and pretreatment application before applying primers and/or topcoats.

For ***ferrous substrates*****,** use: MIL-DTL-53022 Types II, III, IV or V; MIL-DTL-53030 Type II; MIL-PRF-32348 Type I or Type II; or MIL-DTL-53084 electrocoat.

For ***non-ferrous substrates*****,** use : MIL-DTL-53022 Types II, III, IV or V; MIL-DTL-53030 Type II; MIL-PRF-32348 Type I or Type II; MIL-DTL-53084 electrocoat

Note: See the current MIL-DTL-53072 for complete details regarding substrate preparation, coatings, and application

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.

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APPLICATION

The paint must be shaken for a minimum of 15 minutes prior to use. This ensures that the product is homogenous. If it is not homogenous after 15 minutes, replace the lid solidly on the can and shake for an additional 10 minutes.

Clean-Up / Reductions: Clean tools / equipment immediately after use with MEK (R6K10), MIBK (R6K16), MAK (R6K30), Acetone (R6K9), Tertiary Butyl Acetate (R6K38 or R6K221), CARC reducer (R91K25), or any Polane reducer. A blend of MIBK / Xylene (R2K4) or MIL-T-81772 Type I (R91K20) may also be used.

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.

SPECIFICATIONS

- Protect product from moisture.
- Material should be agitated during application to maintain its homogenous state
- Product needs to be used over a suitable primer.

Performance Properties:
Meets all the performance properties of MIL-DTL-53039E Type III.

CAUTIONS

FOR INDUSTRIAL SHOP APPLICATION ONLY

Thoroughly review 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.

CAUTIONS (CONT)

Note: All purchases of products from Sherwin-Williams are exclusively subject to Sherwin-Williams' terms and conditions of sale which can be found at www.sherwin.com. Please review these terms and conditions prior to the purchase of the products.

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