MIL-PRF-22750G, Type III High Solids Epoxy DTM

SHERWIN WILLIAMS.

Tan 686A, 23446..... F92H102
Interior Aircraft Gray, 36231.... F93A33
Medium Gray, 36375..... F93A604
Tan 686A, 33446 .....F93H4
Gray, 26492..... F92A27
White, 27875 ..... F92W228
Interior Aircraft Gray, 26231.F92A28
Green, 24300 ..... F92G28
Seafoam Green 24533 ..... F92G228
Catalyst (Component B) V93V234

DESCRIPTION

MIL-PRF-22750G Type III High Solids Epoxy DTM is a 2-component direct-to-metal epoxy topcoat for interior applications. This product contains less than 0.01 lb/gal VOC* as packaged. This epoxy coating is intended for use as a DTM topcoat for the interior of military ground equipment. This product is applied over zinc phosphate steel and treated aluminum.

Advantages:

- Good corrosion protection
- 0.01 lb/gal VOC as packaged
- Excellent flow characteristics
- Free of lead hazards
- Good combination of potlife and dry time.

The following products are approved by the U. S. Army Research Lab, Aberdeen Proving Ground, Aberdeen, MD

Sherwin-Williams#	QPD#
F92A28	Q2241
F92G228	Q2131
F93A604	Q2240

Per Section 6.4.1 of MIL-PRF-22750G w/ Amendment 1, extension to other semigloss and lusterless colors are made with the qualification of all three of the color numbers 24533, 26231, and 36375.

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

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

CHARACTERISTICS

Gloss (60°):
Semi Gloss 15-30 units
Camouflage Colors 0-5 units
@ (1.7-2.3 mils dry)

Package, pigmented component

Weight/Gallon (Lbs): 13.40 ± 0.3

Volume Solids:
Component A: 51.3 - 53.6 ± 1% varies by color

Weight Solids:
Component A: 69.2 - 72.4 ± 1% varies by color

Application Viscosity:
Admixed: 50 secs. max #4 Ford Cup

Recommended film thickness:
Mils Wet 4.2-5.1
Mils Dry 1.7-2.3

Apply one wet coat to 1.7-2.3 mils dry film thickness. Do not dry spray. Dry spray will reduce gloss.

Spreading Rate (no application loss)
686 sq ft/gal @ 1.0 mils DFT

Drying (2.0 mils DFT, 77° F, 50% RH): Set to Touch: 4 hours maximum Dry Hard: 8 hours maximum Complete Cure: 7 days

Flash Point: 50-53° F PMCC

Mixing Ratio: by volume
4 parts Component A
1 part Component (V93V234)
1 part Reducer

Induction Time: 30 minutes

Pot Life: 4 hours at room temperature - higher temperature will shorten pot life.

Package Life: 18 months, inside storage
V93V234 24 months, inside storage

Air Quality Data:
Photochemically reactive
Volatile Organic Compounds (VOC)
Theoretical: catalyzed as above and reduced with MAK, less exempt 1.90 lb/gal, 228 g/L

SPECIFICATIONS

Steel: Surface must be clean and free of grease, dirt, oil, rust, fingerprints, and other contaminants to insure optimum adhesion and performance properties.

Aluminum: Clean with acidic cleaner or other appropriate cleaner depending on contamination. Pretreat with chromate conversion coating MIL-DTL-5541, wash primer DOD-P-15328 (E90G4), or anodize per MIL-A-8625—MIL-C-8514 (E90G16).

Galvanized and other metals: Clean and remove oxidation contamination on surface, followed by treatment with DOD-P-15328D wash primer (E90G4), MIL-C-8514 (E90G16), or anodize per MIL-A-8625. Due to the variability in these surfaces, testing adhesion on each situation is recommended.

Primers may be applied under the topcoat. For ferrous substrates, use MIL-DTL-53022 primers.

For non-ferrous substrates, MIL-PRF-23377(E90G203) (Type I, Class C2 , 2.8 VOC); or MIL-DTL-53022.

Check the data sheet of each primer for recoat time of topcoat.

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

Reduction: Reduce with MAK, R6K30, Oxsol or Dimethyl Carbonate.

Please consult with your Sherwin-Williams sales representative for proper settings for your spray equipment.

Cleanup:
Clean tools/equipment immediately after use with MIL-T-81772 Type II Thinner (R91K210), MEK (R6K10), or other epoxy reducer. A blend of MIBK and Xylene works well also.

Follow manufacturer's safety recommendations when using any solvent.

SPECIFICATIONS

Product Limitations:

- MIL-PRF-22750 Type III coatings (Component A) must be catalyzed with Catalyst (Component B), V93V234, at 4:1 ratio by volume.
- Do not use other catalysts.
- Do not vary catalyst mixing ratio.
- Component A must be well agitated prior to use.
- Agitate entire mixture, Component A, Component B, and Reducer well before spray.
- A 30 minute induction period is necessary.
- Potlife will be shorter with warmer temperatures.
- Force drying will lower the gloss of this product. This coating is recommended for interior application only.

Performance Properties:
Meets all the performance properties of MIL- PRF-22750G.

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

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