General Industrial Coatings

CC-M41

MIL-PRF-85285F, Type II, Class H
High Solids Polyurethane Topcoat

Gray 26173	F92AC602	Tan 33303	F93HL8
Gray 26270	F92AC603	Tan 33446	F93HL1
Green 24052	F92G601	White 17925	F91WC600
		Catalyst (Component B)	V66V255

DESCRIPTION

MIL-PRF-85285F, Type II, Class H coatings are two-component (2K), low VOC*, high solids polyurethane topcoat designed as a finish coat for military ground support equipment. These products meet the MIL-PRF-85285F, Type II, Class H composition and performance specification.

Advantages:

- *Formulated to meet 2.8 lbs./gal. VOC, less exempt solvents.

CHARACTERISTICS

60° Gloss:

Gloss	90 min.
Semi-Gloss	15-45
Camouflage (Lusterless)	5 max.

Volume Solids (varies by color)**:**

Component A	47-56%
Admixed	55-64 %

Weight Solids (varies by color)**:**

Component A	62-71%

Viscosity (at 77° F, #4 Ford cup)**:**

Component A	varies by color
Admixed	30 secs.

* 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.

Recommended Film Thickness:

Mils Wet	2.8-4.2
Mils Dry	1.8-2.3

Film builds will vary by color to achieve full hiding. Higher builds may be necessary.

Spreading Rate (no application loss)**:**
335-446 ft.^{2}/gal. at 1.8-2.3 mils DFT

Application Conditions

Temperature (air & substrate)	45° F min.
	100° F max.
Relative Humidity	85% max.

Substrate temperature must be at least 5° F above the dew point.

Cure: Air Dry

Air Drying: 1.8-2.3 mils at 77° F, 50% RH

Dry To Recoat	8 hours min.
Dry Hard	8 hours min.

Mixing Ratio (by volume)**:**

White Only

F91WC600	3 Parts
V66V255 Catalyst	1 Part
#R91K25 Reducer	1 Part Max.

Reduce as needed up to one part per volume.

All Other Colors

Component A (all other)	4 Parts
V66V255 Catalyst	1 Part

Potlife: 4 hours

Flash Point (Pensky Martens Closed Cup)**:**

Component A	5-50° F
V66V255 (Component B)	117° F

Air Quality Data:

Photochemically Reactive	
F92AC602, F92AC603. F91WC600	No
F92G601, F93HL1, F93HL1, V66V255	Yes
Volatile Organic Compounds (VOC), Less Exempts (admixed, maximum)	2.8 lb/gal, 336 g/L

Recommended Storage: Sealed Container
Inside Storage at 40-100° F
Protect from moisture

Package Life: 18 months, unopened

SPECIFICATIONS

General: Surface must be clean and free of grease, dirt, oil, rust, fingerprints, and other contaminants to insure optimum adhesion and performance properties. Chemical pretreatment, (zinc phosphate) or DOD-P-15328 wash primer, E90G4, gives best adhesion and performance results. Where blasting is appropriate, blast in accordance with SSPC-SP6. For optimum adhesion pretreat blasted surface immediately. Prime with wash primer E90G4 within two hours after blasting.

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.

Galvanized & Other Metals: Clean and remove oxidation contamination on surface, followed by treatment with DOD-P-15328 wash primer, E90G4, or chemical pretreat with zinc phosphate. Due to the variability in these surface, testing adhesion on each situation is recommended.

Primers must be applied under the MIL-PRF-85285 topcoats.

- For ferrous substrates, use MIL-DTL-24441, MIL-DTL-53022 or MIL-DTL-53030.
- For non-ferrous substrates, use MIL-PRF- 23377, Type I, Class C2, E90G203 or E90G205

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

Typical Setups

Best application results are obtained by applying 2 medium wet passes. Tack off is not required between passes.

May be applied by: Conventional
Airless
Electrostatic
HVLP

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 I.

Follow manufacturer's safety recommendations when using any solvent.

ADDITIONAL INFORMATION

1. This product must be properly catalyzed before using. **DO NOT VARY CATALYST RATIO.** The catalyst ratio has been established for optimum hardness, flexibility, gloss, and chemical & solvent resistance.

Performance Tests

- These products meet the MIL-PRF-85285F, Type II, Class H composition and performance specification.

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.

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