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

DESCRIPTION

MIL-PRF-85285E, 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 MIL-PRF-85285E, Type II, Class H composition and performance specification.

Advantages:
• 2.8 VOC

*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

Gloss: Varies by color
See chart on page 2

Volume Solids: varies by color
Component A: 47-56 +/- 1%
Admixed: 55-64 +/- 1%

Weight Solids: varies by color
Component A: 62-71 +/- 1%

Viscosity:
Component A: varies by color
Admixed: 30 seconds #4 Ford Cup (maximum)

Recommended film thickness:
Mils Wet: 3.2-4.1
Mils Dry: 1.8-2.3

Spreading Rate (no application loss): 335-446 sq ft/gal @ 1.8-2.3 mils DFT

Drying (77°F, 50% RH):
Dry Hard: 8 hours
Dry to Tape: 8-12 hours

Flash Point: 55°F Pensky-Martens Closed Cup

Mixing Ratio:
by volume
White and Black only
3 Parts: F91WC600 or F91B600
1 Part: V66V255

All other colors
4 parts: Component A
1 part: V66V255

Pot Life: 4 hours
Package Life: 18 months, unopened
Storage: Protect from moisture

Air Quality Data:
Volatile Organic Compounds (VOC) catalyzed maximum 2.8 lb/gal, 336 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. 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 and 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-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.
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
HVL
Electrostatic

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.

SPECIFICATIONS

Product Limitations:
• Do not vary catalyst mixing ratio.
• Apply at temperatures between 60 - 90 F and relative humidity between 20 - 80 %

Performance Properties:
Meets all the performance properties of MIL-PRF-85285E, Type II, Class H.

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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<table>
<thead>
<tr>
<th>Color Type</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gloss (1)</td>
<td></td>
<td>90</td>
</tr>
<tr>
<td>Semi-Gloss (2)</td>
<td>15</td>
<td>45</td>
</tr>
<tr>
<td>Camouflage (Lusterless) (3)</td>
<td>5</td>
<td></td>
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