



# Product Finishes

CC-M28

## MIL-DTL-53030D, Type II HAPS Free Waterborne Epoxy Primer

Off White (Component A).....E90W501  
Catalyst (Component B).....V93V505

DESCRIPTION	CHARACTERISTICS	SPECIFICATIONS						
<p><b>MIL-DTL-53030D, Type II</b> is a two component HAPS Free, 2.3 lb/gal VOC Waterborne compliant, lead and chromate free epoxy primer and meets the performance and composition the of MIL-DTL-53030D Type II specification. It may be used as a primer under polyurethane chemical agent resistant coatings (CARC) specified in MIL-DTL-53039, MIL-DTL-64159, MIL-PRF- 22750, or MIL-PRF-85285 Type II polyurethane topcoats.</p> <p><b>Advantages:</b></p> <ul style="list-style-type: none"><li>• 2.3 lb/gal less water VOC* at application</li><li>• No reportable HAPS</li><li>• Passes 1000 hours ASTM B117 salt spray and 40 cycles GM9540P</li><li>• Excellent hardness</li><li>• Non Isocyanate</li><li>• Air or force dry cure</li><li>• Excellent chemical resistance</li></ul> <p>The following MIL-DTL-53030D, Type II products are approved by the U.S. Army Research Lab, Aberdeen, MD.</p> <table><tr><td><b>Sherwin-Williams</b></td><td><b>QPD</b></td></tr><tr><td>E90W501</td><td>Q1917</td></tr><tr><td>V93V505</td><td>Q1917</td></tr></table> <p><b>Air Quality Data:</b> Photochemically reactive Volatile Organic Compounds (VOC) as packaged, maximum, less water Component A: 1.58 lb/gal, 190 g/L Component B: 5.19 lb/gal, 622 g/L Catalyzed as above, maximum, less water 2.30 lb/gal, 276 g/L Volatile Organic Emissions (VOE) mixed as above, maximum 2.35 lb/gal, 282 g/L</p> <p>An Environmental Data Sheet is available from your local Sherwin-Williams facility or at <a href="http://www.paintdocs.com">www.paintdocs.com</a></p>	<b>Sherwin-Williams</b>	<b>QPD</b>	E90W501	Q1917	V93V505	Q1917	<p><b>Gloss:</b> 20 maximum (60°)</p> <p><b>Volume Solids (Typical):</b> Component A: 41.5% Component B: 31.6% Admixed: 39.5%</p> <p><b>Viscosity (Typical):</b> Component A: 70-90 Krebs Units Component B: 12-17 seconds #2 Zahn Admixed: 40 seconds maximum #2 Zahn</p> <p><b>Recommended film thickness:</b> Mils Wet: 3.8 - 6.2 Mils Dry 1.5 - 2.5</p> <p><b>Spreading Rate</b> 634 sq ft/gal @ 1.0 mil DFT</p> <p><b>Drying</b> (77°F, 50% RH, @ 1 mils DFT): Dry to Touch: 60 minutes Dry to Handle: 2 hours To Recoat: 30 - 60 minutes Force Dry: 60 minutes @ 140°F to obtain dry hard</p> <p>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.</p> <p><b>Flash Point:</b> &gt;200°F Pensky Martens Closed Cup</p> <p><b>Mixing Ratio (by volume):</b> 4 parts Component A E90W501 1 part Component B V93V505 1 part Water (maximum)</p> <p><b>Induction Time:</b> 30 minutes Shake Component A well before using. Mix Component B into Component A. Let sit for 30 minutes.</p> <p><b>Pot Life:</b> 6 hours at room temperature</p> <p><b>Package Life:</b> 24 months, inside storage unopened</p> <p>* VOC compliance limits vary from state to state; please consult local Air Quality rules and regulations.</p>	<p><b>CLEANING &amp; PRETREATMENTS</b> Follow the most current revisions of MIL-DTL-53072 and/or TT-C-490 for required cleaning and pretreatment application before coating.</p> <p><b>Note:</b> See the current MIL-DTL-53072 for complete details regarding substrate preparation, coatings, and application.</p> <p><b>Testing:</b> 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.</p>
<b>Sherwin-Williams</b>	<b>QPD</b>							
E90W501	Q1917							
V93V505	Q1917							

## **APPLICATION**

### Typical Setups

**Reduction:** Reduce with deionized water per manufacturers recommendation.

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 water. If dry, clean with MIBK (R6K16).

Follow manufacturer's safety recommendations when using any solvent.

## **SPECIFICATIONS**

### **Product Limitations:**

- This product must be properly mixed (catalyzed) before using. ( See mixing instruction for details.)
- Surface preparation is important for performance.
- If parts have been primed for longer than 7 days, they must be sanded or recoated with a mist coat of E90W501 before topcoating for good adhesion.

### **Performance Properties:**

Meets all the performance properties of MIL-DTL-53030D, Type II.

## **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](http://www.paintdocs.com).

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

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