



# TECHNICAL DATA SHEET

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WATERBORNE EPOXY PRIMER  
MIL-PRF-85582D  
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**PRODUCT:** A two-component, waterborne hi-solids epoxy primer.

**DESCRIPTION:** MIL-PRF-85582D Epoxy Primer is a two-component chemically cured water-borne primer that forms a film that is resistant to chemicals, solvents, moisture, and abrasion. This product has excellent adhesion to most substrates and is recommended for use as a primer under aliphatic polyurethane topcoats in aerospace applications. This coating is available in a 1:1 mixture for spray, brush and roll applications. MIL-P-85582D epoxy primer is rust inhibitive and chemical resistant with excellent abrasion resistance. Available in Class "C2", Chromate rust inhibitor formulation and in Class "N", Non-Chromate rust inhibitor formulation in both Types I, Standard color number 34151 Light Green and in Type II, Low Infrared Reflective, color number 34052 Dark Green. Not available in Type "C1".

**PROPERTIES:**

SOLIDS(Weight)..... 70% Minimum  
SOLIDS(Pigment)..... 50% Minimum  
THIN WITH..... Water  
COLORS..... 34151 & 34052 Green  
POT LIFE(77 degrees F)..... 4 - 6 Hours\*  
TACK FREE..... 1 Hours\*  
DRY HARD..... 6 Hours\*

\* Higher temperatures will accelerate dry times and decrease pot life, lower temperatures will lengthen cure times and slightly increase pot life.

**ADVANTAGES:**

- (1). Chemical Resistant
- (2). Excellent Primer
- (3). Meets ASTM Standard Tests
- (4). Abrasion Resistant
- (5). Resistant to Corrosive Fumes
- (6). Water Thinnable
- (7). Low "VOC"



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**SURFACE PREPARATION:** Surface to be coated must be clean, dry, and free of all foreign contaminants including grease, oil, dirt and loose paint. Abrasive blasting is recommended where applicable. Dirt and dust are best removed with a stiff bristle brush and by compressed air. Grease and oil should be removed by cleaning with appropriate solvents such as mineral spirits, lacquer wash thinner or xylene.

**APPLICATION AND REDUCTION:**

Each of the two components should be thoroughly mixed separately. Component B is then slowly poured into Component A with constant stirring until a one-to-one ratio is achieved. Mix components into the Comp.A can and the Comp.B can to intermix both components. Mix thoroughly and allow to stand 30 minutes before using. Thin with distilled water or clean tap water if necessary. Apply a mist coat and allow to dry 30 minutes. Apply a second coat to a total dry film thickness of 0.6 to 0.9 mils.

**PRECAUTIONS:**

KEEP OUT OF REACH OF CHILDREN.

USE WITH ADEQUATE VENTILATION.

AVOID CONTACT WITH SKIN AND EYES.

READ MATERIAL SAFETY DATA SHEET BEFORE USING.

KEEP FROM FREEZING, CONTAINS WATER.