



# TECHNICAL DATA SHEET

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MIL-C-83231A POLYURETHANE  
SAE-AMS-C-83231A  
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**PRODUCT:** A two-component, isocyanate/polyester polyurethane coating formulated for excellent exterior durability and gloss retention. This coating meets MIL-C-83231A (SAE-AMS-C-83231A) (USAF).

**DESCRIPTION:** MIL-C-83231A POLYURETHANE Coating is a two component chemically cured product that forms a film that is resistant to chemicals, solvents and abrasion, including rain and erosion. This product has excellent adhesion to most substrates and is recommended for heavy duty industrial applications where a tough, chemical resistant coating is required. This coating is available in a 1:1 mixture for brush, roll and spray applications. It is specially formulated for excellent ultraviolet ray resistance and superior exterior durability.

**PROPERTIES:**

SOLIDS (Weight).....	40 - 45%**,*
SOLIDS (Volume).....	52 - 55%**,*
VISCOSITY.....	70 - 90 KU
COLORS.....	Full Range
POT LIFE (77 degrees F).....	6 - 8 Hours*
TACK FREE.....	2 Hours
RECOAT.....	1 Hour
LIGHT SERVICE.....	24 Hours
FULL SERVICE.....	7 Days

\*Catalyzed values

\*\*Values will vary with color

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

**ADVANTAGES:**

- (1). Excellent Exterior Durability
- (2). Abrasion Resistant
- (3). Chemical Resistant
- (4). Meets ASTM Standard Tests
- (5). Resistant to Corrosive Fumes



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**SURFACE PREPARATION:** Surface to be coated must be clean, structurally sound and free of all foreign contaminants including dirt, wax, loose paint or grease. Greasy or oily surfaces should be solvent cleaned with care taken not to paint over moist or wet surfaces. The recommended primer is MIL-P-23377F Type I Epoxy Polyamide. The use of alkyd based primers under this coating is not advisable.

Old paint in peeling condition must be removed. Sandblasting or wire brushing are the preferred methods. Chalky paint must also be wire brushed for maximum adhesion.

**APPLICATION:** MIL-C-83231A POLYURETHANE Coating can be brushed rolled or sprayed. Mechanically mix each component, then combine at a ratio of 1:1 by volume. Let admixed material stand for 15 to 30 minutes before using to allow for chemical induction. Requires only minimum thinning, is normally ready for application after catalyzation. If thinning is required, use MIL-T-81772B Polyurethane Thinner.

**PRECAUTIONS:**

Catalyst component is moisture sensitive. Always immediately secure the lid on the can after use. If a reaction precipitate forms in the can, then moisture contamination has occurred and the catalyst should not be used.

USE WITH ADEQUATE VENTILATION.

AVOID CONTACT WITH SKIN AND EYES.

SHELF LIFE: 1 YEAR FROM DATE OF MANUFACTURE.

READ MATERIAL SAFETY DATA SHEET BEFORE USING.

KEEP OUT OF THE REACH OF CHILDREN.

FOR INDUSTRIAL USE ONLY.

CONTENTS ARE FLAMMABLE PER UN1263