



MIL-C-46168D Polyurethane

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Description: MIL-C-46168D Polyurethane Coating is a two-component chemically cured product that forms a film that is resistant to chemicals, solvents, and abrasion. 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 4:1 mixture for brush, roll and spray applications. It is specially formulated for excellent ultraviolet ray resistance and superior exterior durability. It is low "VOC" and high solids to comply with most regulations. Available in both camouflage and non-camouflage for use as a finish coat of military combat equipment.

Physical Properties:

Solids (Weight):	73 – 76% **
Solids (Volume):	53 – 57% **
Viscosity:	70 – 85 KU
Colors:	Full Range
POT Life (77 Degrees F):	6 – 8 Hours *
Set-To-Touch:	30 Minutes *
Dry Hard:	3 Hours *
Dry Through:	4 Hours *
Full Service:	7 Days *

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

**Values will vary with color.

Application Characteristics:

- (1) Excellent Exterior Durability
- (2) Abrasion Resistant
- (3) Chemical Resistant
- (4) Meets MIL-C-46168D Specs
- (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 & REDUCTION:

MIL-C-46168D Polyurethane Coating can be brushed rolled or sprayed. Mechanically mix each component, then combine at a ratio of 4:1 by volume. Let admixed material stand for 15 minutes before using to allow for chemical induction. If thinning is required, use Intrepid MIL-T-81772B Type I Polyurethane Thinner.

PRECAUTIONS:

CONTENTS ARE FLAMMABLE.
KEEP OUT OF THE REACH OF CHILDREN
USE WITH ADEQUATE VENTILATION
AVOID CONTACT WITH SKIN AND EYES
FOR INDUSTRIAL USE ONLY
READ MATERIAL DATA SHEET BEFORE USING

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