



# TECHNICAL DATA SHEET

TECHNICAL DATA SHEET  
MIL-DTL-64159A Ty.I  
CARC POLYURETHANE

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**PRODUCT:** A two-component, waterborne, CARC polyurethane coating.

**DESCRIPTION:** MIL-DTL-64159A Ty.I CARC Polyurethane Coating is a two-waterborne 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 military equipment and heavy duty industrial applications where a tough, chemical resistant coating is required. This coating is available in a 2:1 mixture for brush, roll and spray applications. It is specially formulated to reduce with deionized or distilled water.

**PROPERTIES:**

SOLIDS Part A(Volume)..... 32-38%  
SOLIDS Part B(Volume)..... 68-70% \*\*  
VISCOSITY..... 70 - 85  
KU COLORS..... CARC Limited  
Selection POT LIFE(77 degrees F).....  
4 Hours\* SET-TO-TOUCH.....  
60 Minutes\* DRY  
HARD..... 6 Hours\*  
DRY THROUGH..... 8  
Hours\* FULL CURE.....  
7 Days\*\* Higher temperatures will accelerate dry  
times and decrease pot life, lower temperatures will  
lengthen cure times and slightly increase pot life.  
\*\*Values will vary with color.

**ADVANTAGES:**

- (1). Excellent Exterior Durability
- (2). Abrasion Resistant
- (3). Chemical Resistant
- (4). Meets MIL-DTL-64159A Ty.I Specs.
- (5). Resistant to Corrosive Fumes
- (6). Water Reducible - Low VOC
- (7). Lead & Chromate Free



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**SURFACE PREPARATION:** Surface to be coated must be properly prepared, 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-DTL-53022C Epoxy Primer for ferrous metals and DOD-P-15328D / MIL-PRF-23377J for non ferrous metals.

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-DTL-64159A TY.I CARC Polyurethane Coating can be brushed rolled or sprayed. Mechanically mix each component, then combine at a ratio of 2 parts Part A to 1 Part Component B by volume. Add 0.5 parts of Deionized or Distilled Water. More water may be added to achieve required viscosity for equipment used. Mix Part B into Part A for 3 minutes using a mechanical air mixer, then reduce. Hand mixing is not recommended. Clean up with water immediately after use then flush equipment with MIL-T-81772B Ty.I Thinner to prevent rusting.

**PRECAUTIONS:**

USE WITH ADEQUATE VENTILATION.

AVOID CONTACT WITH SKIN AND EYES.

READ MATERIAL SAFETY DATA SHEET BEFORE USING.

KEEP OUT OF THE REACH OF CHILDREN.

FOR INDUSTRIAL USE ONLY.



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CONTENTS ARE FLAMMABLE.