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# MIL-DTL-53039B Ty I 1K ALIPHATIC POLYURETHANE CHEMICAL AGENT RESISTANT COATING

## DESCRIPTION

3.5 lbs./gal VOC, single component moisture cure aliphatic urethane camouflage, chemical agent resistant coating approved by US Army Research Laboratory for use on military equipment.

## ADVANTAGES

- Single Component
- Low VOC, 3.5lbs./gal.
- Fast Solvent & Water Resistance
- Force Curable with Elevated Temperatures
- Reduces Waste

## PHYSICAL PROPERTIES

WEIGHT PER GALLON: 9.9 - 11.1 lbs.

VOLUME SOLIDS: 50-52%

VOC: 3.5 lbs./gal max as packaged

VISCOSITY: 65 - 80 KU

POT-LIFE: Unlimited if kept from moisture

GLOSS: 60° Max 1.0 except 1.5 for Tan  
85° Max 3.5 except 4.0 for Tan

COVERAGE : 800 - 830 square feet per gallon as applied at 1 mil dry, no application loss.

Chemical Agent Resistant Coating (CARC) System Application Procedures and Quality Control Inspection specification Mil-DTL-53072C should be referenced for proper cleaning, pretreatment and priming of different substrates.

## APPLICATION INFO

DIRECTIONS FOR USE: Mix well, no thinning necessary. Material is ready For use.

DRY TIMES : 2 mils dry, 77°F 50% RH

To Touch : 5 - 30 mins.  
Hard : 3 hours max  
Dry Through : 4 hours max  
Recoat : 8 - 10 hours

FORCE DRY: To Achieve Dry Hard

5 Minutes @ 275°F  
10 Minutes @ 210°F  
20 Minutes @ 165°F  
30 Minutes @ 145°F

Thicker films, lower temperature, or lower humidity will increase cure time.

RECOMMENDED REDUCER: If needed, Mil-T-81772 Type I Urethane Reducer (maximum 25% by volume).

RECOMMENDED FILM THICKNESS:  
Per Mil-DTL-53072C: 1.8 – 2.5 DFT

CONVENTIONAL SPRAY: Use 50 - 80 psi atomizing air with a .070 fluid tip.

AIR ASSISTED AIRLESS: Use 800 psi fluid, 20-30 psi atomizing and a 0.011 - 0.015 tip

HVLP: Use 56-100 psi atomizing air, 5-10 psi fluid pressure and .070 fluid tip

CLEAN-UP: Use MEK, MIBK, MAK or Mil-T-81772 Ty I Reducer.