

N-8980

DynaSpec™ MC

3.5 VOC Tan 686 Moisture Cure CARC Camouflage Top Coat

MIL-DTL-53039 Type IX Polymeric Flattening Agent



Intended Uses:

This single component polyurethane coating is intended to provide surfaces that are easily and effectively decontaminated after exposure to liquid chemical agents. It may be used in areas where VOHAP's are regulated. This Chemical Agent Resistant Coating meets MIL-DTL-53039D Type IX.

Physical Properties

Color:	Tan 686 Fed. Std.#33446	Substrate Tested:	Zinc Phosphate Pretreated Steel.
Gloss:	1.6 max @ 60° 4.0 max @ 85°	Salt Spray (B117): Q-Steel panels prepared at a combined primer/top coat system of 3.5-4.5 dft	336-1000 hrs dependent on primer selection
Volume Solids:	51.1 +/- 2%	Humidity:	336-1000 hrs dependent on primer selection
Weight Solids:	62.8 +/- 2%	QUVA (340):	800 hrs
Weight Per Gallon:	9.02 +/- 0.3 lbs/gallon	Pencil Hardness:	2H
Theoretical Coverage:	820 sq ft/gal @ 1 mil dft	Impact Direct/Indirect:	40 inch-pounds
VOC:	3.5 lbs/gallon max	Crosshatch Adhesion:	Pass 5
Recommended Film Thickness:	1.8 mils DFT min		
Viscosity:	55 - 80 KU		
Conductivity:	Dependent on reducing solvent		

Chemical Resistance

MEK, 100 Double Rubs:	Pass	10%-Hydrochloric Acid:	Pass
Lubricating and Cutting Oils:	Pass	10%-Acetic Acid:	Pass
Hydraulic Fluids:	Pass	10%-Sodium Hydroxide:	Pass
Water Immersion:	Pass	Gasoline:	Pass

Application Characteristics

Mix Ratio:	Single Component (1K).			
Reducer:	None. Ready to spray. Special thinning with T-210 (MIL-T-81772B), its equivalent or urethane grade thinner.*			
Cleaning Solvent:	T-210 or urethane grade thinner.			
Dry Times:	Touch: 30 min max	Recoat: Anytime	Handle: 3 hrs	Pack/Ship: 4 hrs
Force Cure:	Force dry at 180° F for 30 minutes.			
Full Cure:	1 week			
Note: Test Performed @ 77° F 50% Relative Humidity				

Technical Data Sheet

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Recommended Primers

Substrate	Recommended Primer
Aluminum/Galvanized Steel/Stainless Steel:	B-875/T-63 or N-8564A/N-8564B Wash Primer and N-1088A/B or N-1981A/B Epoxy Primer.
Ductile or Grey Iron Castings:	N-1981A/B or N-1088A/B
Plastics:	Due to the wide variety of plastic/fiberglass substrates, system performance should be tested and confirmed on actual substrate.
Previously Painted Surfaces:	Surface should be intact and sound. All loose and flaking material removed and bare spots primed with an appropriate primer. An area should be tested with the coating to assure compatibility.
Steel:	N-5751M2 Zinc Rich Epoxy, N-1088A/B or N-1981A/B Epoxy.
Wood:	Due to the wide variety of wood substrates, system performance should be tested and confirmed on actual substrate.

Application Equipment

Conventional Electrostatic:	Air Pressure: N/A	Fluid Pressure: N/A	Cap: N/A Tip:
Conventional Spray:	Air Pressure: 10 - 30 psi	Fluid Pressure: 20 - 40 psi	Cap: Tip: 1.4 - 1.6
HVLP Spray:	Air Pressure: 10 psi	Fluid Pressure: 20 - 40 psi	Cap: Tip: 1.4 - 1.6
Air Assisted Airless:	Air Pressure: 30 - 40 psi	Fluid Pressure: 1000 psi	Cap: Tip: 0.011 - 0.013"
Airless:	Pressure: 3000 psi	Tip: 0.013"	
Brush and Roll: Use for touch up only. The use of natural china chip bristle brushes or ¼" maximum nap mohair type rollers is highly recommended to limit the amount of orange peel.			
Note: The above parameters are to be used as a guideline only. Customer specific equipment may require a different set-up			

Surface Preparation

Do not apply if the application surface temperature is below 45°F (7°C) or above 110°F (43°C), or if the surface temperature is within 5°F of the dew point. It is highly recommended that sound practices as set forth by SSPC or NACE be followed when preparing a substrate for painting. At a minimum the surface should be clean of all grease, dirt, oil, rust and foreign material that would be detrimental to proper adhesion and desired performance of the coating system being applied.

Safety Precautions

This product is intended for professional use in an industrial environment only! Consult the Material Safety Data Sheet prior to application for detailed information on the health and safety hazards.

Shelf Life & Storage Conditions

Shelf life (protected from atmospheric moisture): 12 months from the date of manufacture. This product must be stored in accordance with local, state, and national regulations. Preferred storage conditions: Keep containers in a dry space with adequate ventilation.

Comments

Mix with a paint shaker prior to use. Agitate material while in use. Ambient application temperature should be between 60°F and 90°F. Best results with relative humidity above 10% and less than 80%. Application and use of this product is outlined in MIL-DTL-53072D, which should take precedence as a CARC processing guideline. Also see NCP Application Bulletin for more information.

* Use of thinner will affect VOC and may cause paint to sag and run. PCBTF (Oxsol 100) may be used up to 20% without affecting VOC.

Note

The above information is supplied as a guideline to our customers. The user must be aware of the cleaning, pretreatment, application and testing requirements for their specific job!