

N-8979

DynaSpec™ MC

3.5 VOC Green 383 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**

|  |                                |   |   |
|--|--------------------------------|---|---|
| <b>Color:</b>                          | Green 383 Fed. Std.#34094      | <b>Substrate Tested:</b>  | Zinc Phosphate Pretreated Steel.              |
| <b>Gloss:</b>                          | 1.0 max @ 60°<br>3.5 max @ 85° | <b>Salt Spray (B117):<br/>Q-Steel panels prepared at a<br/>combined primer/top coat<br/>system of 3.5-4.5 dft</b> | 336-1000 hrs dependent on primer<br>selection |
| <b>Volume Solids:</b>                  | 51.3 +/- 2%                    | <b>Humidity:</b>  | 336-1000 hrs dependent on primer<br>selection |
| <b>Weight Solids:</b>                  | 64.8 +/- 2%                    | <b>QUVA (340):</b>  | 800 hrs                                       |
| <b>Weight Per Gallon:</b>              | 9.5 +/- 0.3 lbs/gallon         | <b>Pencil Hardness:</b>   | 2H  |
| <b>Theoretical Coverage:</b>           | 823 sq ft/gal @ 1 mil dft      | <b>Impact Direct/Indirect:</b>  | 40 inch-pounds                                |
| <b>VOC:</b>                            | 3.5 lbs/gallon max             | <b>Crosshatch Adhesion:</b>   | Pass 5  |
| <b>Recommended Film<br/>Thickness:</b> | 1.8 mils DFT min               |   |   |
| <b>Viscosity:</b>                      | 55 - 80 KU                     |   |   |
| <b>Conductivity:</b>                   | Dependent on reducing solvent  |   |   |

**Chemical Resistance**

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

**Application Characteristics**

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

**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<br>Tip:            |
| Conventional Spray:   | Air Pressure: 10 - 30 psi | Fluid Pressure: 20 - 40 psi | Cap:<br>Tip: 1.4 - 1.6      |
| HVLP Spray:   | Air Pressure: 10 psi      | Fluid Pressure: 20 - 40 psi | Cap:<br>Tip: 1.4 - 1.6      |
| Air Assisted Airless:   | Air Pressure: 30 - 40 psi | Fluid Pressure: 1000 psi    | Cap:<br>Tip: 0.011 - 0.013" |
| Airless:  | Pressure: 3000 psi        | Tip: 0.013"                 |                             |
| <b>Brush and Roll:</b> 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. |                           |                             |                             |
| <b>Note:</b> 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!