MIL-PRF-22750G High Gloss
DynaSpec™ Pb Cr Free High Gloss Epoxy Topcoats
MIL-PRF-22750G, Type II, Class H, Grade B

Technical Data Sheet

Intended Uses:

A two component, high solids epoxy coating for use on the interior of tactical equipment. The color of the coating is available in a wide variety of colors and gloss ranges including high gloss, semi-gloss and lusterless. Coating colors are designated by FED-STD-595 color chip number.

Mixed Physical Properties

Color:	1XXXX series FED-STD-595 Colors*	**Substrate Tested:**	Steel
Gloss:	>90 @ 60°	**Salt Spray (B117): Q-Steel panels prepared at a combined primer/top coat system of 3.5-4.5 dft**	NA; Type II
Volume Solids:	57.0 +/- 2.0% mixed	**Humidity:**	300 hrs
Weight Solids:	71.0 +/- 2.0% mixed	**Pencil Hardness:**	H
Weight Per Gallon:	10.5 +/- 0.5 lbs/gallon mixed	**Impact Direct/Indirect:**	40 inch-pounds
Theoretical Coverage:	950 sq ft/gal @ 1 mil dft	**Crosshatch Adhesion:**	Pass
VOC:	1.75 lb/gallon mixed	**Viscosity:**	30-40 seconds # 2 Zahn
Recommended Film Thickness:	1.8-2.2 mils dry		10-20 seconds # 3 Zahn EZ

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:	4 parts Component A to 1 part 22750G Component B. 1-gallon kits are supplied as a short filled gallon of A and a short filled quart of 22750G Component B.			
Reducer:	Ideal reducer is T-236 Epoxy Reducer (MIL-DTL-81772C Type II)			
Cleaning Solvent:	T-236 Epoxy Reducer is recommended cleaning solvent.			
Pot Life:	4-6 hours, Pot life diminishes as temperature rises.			
Dry Times:	**Touch:** 3 hours	**Recoat:** Anytime within the first 7 days	**Handle:** 6 hrs	**Pack/Ship:** 16 hrs
Force Cure:	This product can be force cured for approximately 30 minutes at 150-180° F after a 20-30 minute flash off time.			
Full Cure:	168 hrs			
Note: Test Performed @ 77° F 50% Relative Humidity				

Recommended Primers

Substrate	**Recommended Primer**
Aluminum(Aviation Systems)	MIL-PRF-23377 or MIL-PRF-85582 Epoxy Primers, Consult Contract Requirements
Aluminum/Galvanized Steel/Stainless Steel:	DOD-P-15328 or MIL-C-8514C Wash Primer, Consult Contract Requirements
Ductile or Grey Iron Castings:	MIL-DTL-53022 or MIL-DTL-53030 Epoxy Primers, Consult Contract Requirements
Plastics:	Due to the wide variety of plastic/fiberglass substrates, the system performance should be tested and confirmed on actual substrate.

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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:	MIL-DTL-53022 or MIL-DTL-53030 Epoxy Primers, , Consult Contract Requirements
Wood:	Due to the wide variety of wood substrates, the system performance should be tested and confirmed on actual substrate.

Application Equipment

Conventional Electrostatic:	N/A	N/A	N/A
Conventional Spray:	**Air Pressure:** 40-60psi	**Fluid Pressure:** 10-20psi	**Cap:** Medium/Heavy Visc. **Tip:** 1.5-1.8 mm
HVLP Spray:	**Air Pressure:** 15-20psi	**Fluid Pressure:** 10-20psi	**Cap:** Heavy Visc. **Tip:** 1.8-2.0 mm
Air Assisted Airless:	**Air Pressure:** 30:1 ratio pump or larger @ 80-100 psi to provide a tail free oblong pattern	**Atomizing Air:** Adjust as needed	**Cap:** Medium Visc. **Tip:** 0.11-0.13
Airless:	**Pressure:** 2400psi minimum	**Tip:** 0.11-0.13	
Brush and Roll: Utilize a High Quality China or Natural bristle brush or high-density foam core roller for best results.			
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 sruface 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

Use of a mechanical mixer is highly recommended. For additional information contact your NCP Coatings, Inc. Sales Representative, Customer Service Representative, or visit our website: www.ncpcoatings.com

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!

* FED-STD-595 1XXXX-High Gloss Colors:

10049- N-9241A	10257- N-9324A	11105- N-9302A	11136- N-9228A	11140- N-9507A
11302- N-9525A	12197- N-9435A	12300- N-9354A	13538- N-9377A	13655- N-9530A
13670- N-9367A	14110- N-9526A	14187- N-9338A	14193- N-9531A	15193- N-9441A
16187- N-9229A	16152- N-9613A	16307- N-9434A	16440- N-9240A	16473- N-9297A
16480- N-9502A	16492- N-9518A	17038- N-9264A	17142- N-9474A	17178- N-9398A
17875- N-9443A	17886- N-9527A	17925- N-9042A	Clear- N-9293A	

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