



NuCharge It Low VOC Enamel

171 Gloss / 172 Semi-gloss series

PRODUCT DESCRIPTION

Type	Electrostatically applied acrylic modified alkyd enamel
Description	NuCharge It Electrostatic Low VOC Enamel is a premier, single-component, acrylic modified, air-dry enamel specifically formulated for interior and exterior usage with conventional and electrostatic spray equipment.
Uses	<ul style="list-style-type: none">• Industrial applications such as lockers, furniture, gates, fences, doors, tanks, and structural steel.• Suited for previously coated surfaces with unknown finishes that may be susceptible to lifting by stronger solvents used in urethanes and epoxies.
Features	<ul style="list-style-type: none">• Gloss, and semi-gloss finishes available• Custom color bases including metallic and mica• Fast drying• UV-resistant for exterior use

SUBSTRATE & SURFACE PREPARATION

All	Substrate must be clean, dry and free of contaminants
Steel & Iron	The minimum surface preparation for steel and iron is Hand Tool Cleaning per SSPC-SP2. Power Tool Cleaning per SSPC-SP3 is preferred for better performance. Prior to either procedure, the surface should be solvent cleaned per SSPC-SP1. Feathering around scratches is recommended because certain surfaces may lift when coated. A quick test should be conducted in an inconspicuous area to determine if a base coat should be removed or primed.
Primer	Recommended to use 211 Series NuCharge It Low VOC Universal Primer for exterior Applications.

MIXING & THINNING

Ratio	1 - component
Mixing	Mix thoroughly before use by boxing or with mechanical agitation.
Thinning	Thinning is not normally needed. Add 560X1557 NuCharge It VOC Exempt Reducer as required. Add 3-4 ounces of 480X9999 Roll-A-Glaze per mixed gallon to reduce dry spray and orange peel, if required. 480X9999 Roll-A-Glaze can be added to help add a wet edge for spraying large parts and to aid in brush and roll applications.
Pot Life	n/a
Cleanup	Use NuCharge It Reducer (560X2005).

APPLICATION GUIDANCE

Application Conditions	This product may be applied by electrostatic equipment, brush, roller, conventional spray, airless, and HVLP. Excessive film or surface contamination may cause adhesion problems and solvent entrapment.
Brush	Brush application in small areas
Roller	Short nap or mohair phenolic core roller
Spray	This product may be applied by electrostatic, conventional, HVLP, and airless equipment.

CURE TIME & RECOAT WINDOW

Substrate Temperature	To Touch	Tack Free	To Recoat	Full Cure
75°F (24°C)	15 minutes	2 hours	Overnight or after 8 hours	7 days

Drying times are dependent upon film thickness, temperature and humidity.



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PACKAGING, ESTIMATING & HANDLING

Product	Code	Packaging
NuCharge It Low VOC Enamel	171/172	1-gallon pails.

Theoretical Coverage 760 ft² / gallon @ 1.0 mil dry film thickness.

Storage & Shelf Life Maintain products in original packaging and sealed until ready for use. Estimated shelf life is 2 years when stored in a dry area at 70°F (21°C). Actual shelf life may vary with storage conditions.

Safety Mixes and applications of this product present a number of hazards. Read and follow the hazard information, precautions and first aid directions on the individual product labels and safety data sheets before using.

Ventilation Provide thorough air circulation during and after application until the material has cured when used in enclosed areas.

TYPICAL PHYSICAL PROPERTIES

Property	Typical Value
<i>Specific properties below are of 171T1000 Gloss White</i>	
Colors	Full range
Gloss	High Gloss 85+ units Semi-gloss 45-55 units
Volume Solids	47.4%
Viscosity	25-35" Zahn 2
Recommended DFT	1.5 to 2.5 mils DFT yields 304-506 SF/GAL
Flash Point	46F°
VOC	<2.8 lbs. / gal. (334 g/L)
Weight / gallon	9.98
Temperature Resistance	225°F
Shelf Life	1 year

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