



Performance Coatings & Finishes

Amercoat® 220

Waterborne acrylic topcoat

Product Data

- Self-priming
- VOC-compliant
- Single-package convenience
- Semigloss or satin
- Brush, roll or spray
- Dries fast, minimum downtime
- Interior for OEM
- Excellent gloss retention and weathering
- Superior impact resistance and flexibility
- Washable, scrub-resistant
- Durable, chemical-resistant
- Stain resistant
- Quick, easy clean up
- Wide color range

Amercoat 220 is a high-performance waterborne acrylic enamel that may be applied direct* to metal on most exterior and interior surfaces. Also ideal for concrete and masonry, it may be used over tightly adhering old paint and rust as well as primed surfaces. Amercoat 220 provides a beautiful, flexible, cleanable gloss finish that resists cracking, peeling and impact damage. Amercoat 220 significantly out-performs conventional acrylic coatings. It retains color and gloss like a polyurethane, far better than traditional alkyds.

Amercoat 220 requires minimal surface preparation, usually only metal etching or power tool cleaning to remove loose rust. Easy to apply and clean up, Amercoat 220 is a versatile topcoat for a wide variety of new construction and maintenance application. Contact your Ameron representative for conditions outside the requirements or limitations described.

***Important – Amercoat 220 deep or dark colors made from neutral or clear tint base should always be used with a prime coat when going over metallic surfaces such as steel and aluminum.**

Typical Uses

- Walls
- Food processing plants
- Institutional maintenance and new construction
 - Schools
 - Hospitals
 - Laboratories
 - Storage areas
- Industrial maintenance and new construction
 - Tank exteriors
 - Structural steel
- Marine applications
 - Vessel topsides and interiors
 - Offshore platform topsides and interiors

Not recommended for continuous immersion

Physical Data

Finish	Semigloss	
Color	See color chart	
<i>Uniform appearance will require two coats of white or pastel colors over dark substrates. Use only light-colored primer or intermediate coat when one finish coat of white or pastel Amercoat 220 is specified.</i>		
<i>Gloss varies with color.</i>		
<i>Yellow, red and orange colors will fade faster than other colors due to the replacement of lead-based pigments with lead-free pigments in these colors.</i>		
Components	1	
Curing mechanism	Drying	
Volume solids (calculated)	35% ± 3%	
Dry film thickness per coat	2 mils (50 microns)	
direct-to-metal	2-5 mils (50-125 microns)	
<i>Coating thickness depends on severity of exposure and surface roughness.</i>		
Coats	1 to 2	
Theoretical coverage	ft ² /gal	m ² /L
1 mil (25 microns)	561	13.8
2 mils (50 microns)	280	6.9
VOC	1.5 lb/gal	180 g/L
Flash point (SETA)	°F	°C
Amercoat 220	>212	>100

Qualifications

NFPA – Class A

USDA – Incidental Food Contact

Application Data

Applied over	Prepared or primed steel and concrete, previously painted surfaces, wood, aluminum, galvanizing, dry wall		
Primer	148, 151, 385, 400, 5105, Dimetcote®21-5 or D9HS		
<i>When applying over Dimetcote 21-5, Amercoat 856 Additive must be used.</i>			
Surface preparation	See primer application instructions		
Method	Conventional or airless spray, brush, roller		
Environmental conditions			
Temperature	°F	°C	
air	40 to 110	4 to 43	
surface	40 to 120	4 to 49	
Relative humidity	°F		
(maximum)	40	50 to 100	>100
	60%	85%	95%
Surface temperatures must be at least 5°F (3°C) above dew point to prevent condensation.			

Formerly Amerguard™ 220

Typical Properties

Performance**

Abrasion (ASTM D4060) CS-17, 1000 cycles, 1 kg	weight loss 110 mg
Impact (ASTM G14)	160 in/lbs
Adhesion (Elcometer) (ASTM D4541)	500 psi
Flexibility (ASTM D522)	>35%
Moisture vapor transmission (ASTM D1653)	
Specific permeability	1.04
Temperature resistant (dry)	°F/°C
Continuous	200/93
Intermittent	250/121
Weatherability (QUV & Florida Exposure)	
Chalk resistant	1 yr/Excellent
Gloss retention	1 yr/Excellent
Salt Spray (ASTM B117) 1000 hrs; 1 coat	
Face corrosion	None (ASTM D1654)
Humidity/Condensation (ASTM D4585) 100 hrs; 1 coat	
Face corrosion	None (ASTM D1654)

****Note: Values are for factory manufactured material. Tint based colors will have reduced water resistance.**

Compatibility

Coated surfaces: may be applied over most existing coatings, including alkyds, epoxies, vinyls, polyurethanes, acrylic. To insure good adhesion, conduct a compatibility test over clean, intact area or roughen the surface with light abrasive blasting or sanding.

Suitable primers:

Amercoat 148	Waterborne Acrylic
Amercoat 351	100% solids multi-purpose epoxy
Amercoat 385	Epoxy
Amerlock 400	Epoxy
Amercoat 5105	Alkyd
Dimetcote 21-5	Waterbased Inorganic Zinc Silicate
Dimetcote 21-9	Inorganic Zinc Primer

Application Data Summary

See Application Instructions for complete information on surface preparation, environmental conditions, application procedures and equipment. To obtain maximum performance, apply as recommended. Adhere to all safety precautions during storage, handling, application and drying periods.

Limitation of Liability

Ameron's liability on any claim of any kind, including claims based upon Ameron's negligence or strict liability, for any loss or damage arising out of, connected with, or resulting from the use of the products, shall in no case exceed the purchase price allocable to the products or part thereof which give rise to the claim. **In no event shall Ameron be liable for consequential or incidental damages.**

Drying time (ASTM D1640) @ 2 mils DFT	°F/°C		
	90/32	70/21	50/10
touch (minutes)	15	20	60
through (hours)	1	3	13
Recoat time (hours)			
minimum	1	3	13
maximum	None, see surface preparation for aged coatings.		
<i>Cracking may occur at temperatures below 50°F during initial drying.</i>			
Thinner	Water		
Equipment cleaner	Water		

Shipping Data

Packaging	1 gal	5 gal
Shipping weight (approx)	lb	kg
1-gal can	11	5
5-gal can	53	24

Shelf life when stored indoors at 40 to 100°F (4 to 38°C)
1 year from shipment date

Protect from freezing.

Numerical values are subject to normal manufacturing tolerances, color and testing variances. Allow for application losses and surface irregularities. See application instructions for complete information and safety precautions.

This product is nonphotochemically reactive as defined by the South Coast Air Quality Management District's Rule 102 or equivalent regulations.

Surface Preparation

Coating performance is, in general, proportional to the degree of surface preparation. All surfaces must be clean, dry and free of all contaminants, including salt deposits before applying coating.

Safety Precautions

Read material safety data sheet before use. Safety precautions must be strictly followed during storage, handling and use.

This product is for industrial use only. Not for residential use.

Warranty

Ameron warrants its products to be free from defects in material and workmanship. Ameron's sole obligation and Buyer's exclusive remedy in connection with the products shall be limited, at Ameron's option, to either replacement of products not conforming to this Warranty or credit to Buyer's account in the invoiced amount of the nonconforming products. Any claim under this Warranty must be made by Buyer to Ameron in writing within five (5) days of Buyer's discovery of the claimed defect, but in no event later than the expiration of the applicable shelf life, or one year from the delivery date, whichever is earlier. Buyer's failure to notify Ameron of such nonconformance as required herein shall bar Buyer from recovery under this Warranty.

Ameron makes no other warranties concerning the product. No other warranties, whether express, implied, or statutory, such as warranties of merchantability or fitness for a particular purpose, shall apply. In no event shall Ameron be liable for consequential or incidental damages.

Any recommendation or suggestion relating to the use of the products made by Ameron, whether in its technical literature, or in response to specific inquiry, or otherwise, is based on data believed to be reliable; however, the products and information are intended for use by Buyers having requisite skill and know-how in the industry, and therefore it is for Buyer to satisfy itself of the suitability of the products for its own particular use and it shall be deemed that Buyer has done so, at its sole discretion and risk. Variation in environment, changes in procedures of use, or extrapolation of data may cause unsatisfactory results.



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