



AMERON
INTERNATIONAL

Performance Coatings & Finishes

Amercoat® 335

Waterborne epoxy acrylic

Product Data

- Self-priming
- Direct to substrate
- VOC-compliant
- Dries fast, minimum downtime
- Interior or exterior use
- Brush, roll or spray
- High gloss
- Durable
- Water-reducible
- Outstanding color and gloss retention
- Wide color range

Amercoat 335 is a high-performance waterborne epoxy acrylic coating for steel, concrete, masonry, wood, galvanizing, aluminum substrates, previously painted surfaces and drywall. Combining the long-term protection of epoxy with the gloss and color retention of acrylic, Amercoat 335 provides a lustrous, stain-resistant, cleanable finish that retains its attractive appearance far longer than two-component solvented epoxies and traditional alkyd systems.

Amercoat 335 requires minimal surface preparation, usually only power-tool cleaning or metal etching. It dries much faster than solvented VOC-compliant epoxies and conventional epoxy acrylics.

Low-hazard, low-odor Amercoat 335 meets air quality regulations and cleans up easily. Because Amercoat 335 resists splash and spill of most household and industrial chemicals, it provides excellent long-term protection in industrial and chemical environments. Washable and scrub resistant, Amercoat 335 even withstands steam cleaning. Good abrasion resistance makes Amercoat 335 a durable coating for floors, walls and other high-wear areas.

Typical Uses

- Floors, walls
- Food processing plants
- Institutional maintenance and new construction
 - Schools Kitchens
 - Hospitals Storage areas
 - Laboratories
- Industrial maintenance and new construction
 - Tank exteriors Piping
 - Equipment Structural steel
- Marine applications
 - Vessel topsides and interiors
 - Offshore platform topsides and interiors

Compatibility

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

Physical Data

Finish	Gloss	
Color	Standard and custom <i>Uniform appearance may 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 335 is specified.</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	2	
Curing mechanism	Drying; chemical curing (crosslinking)	
Volume solids (ASTM D2697 modified)		
Amercoat 335	43 ± 3%	
335 clear	36 ± 3%	
Dry film thickness per coat	2 to 3 mils (50 to 75 microns)	
Coats	1-2 (see systems)	
Theoretical coverage	ft ² /gal	m ² /L
1 mil (25 microns)		
Amercoat 335	689	17
335 clear	577	14
3 mils (75 microns)		
Amercoat 335	229	5.6
335 clear	192	4.7
VOC (mixed)	2.4 lb/gal	288 g/L
Flash point (SETA)	°F	°C
cure	117	47
resin	175	79
mixed 335	155	68
Amercoat 928	175	79
Amercoat 855	220	104

Qualifications

USDA – incidental food contact

NFPA – Class A

Application Data

Applied over	Prepared or primed steel, concrete, masonry, wood, galvanizing, aluminum, previously painted surface, drywall	
Primers	83HS, 148, 385, Amerlock® 400, 400BF, 5105, Dimetcite® 21-5	
Surface preparation	See specific primer	
Method	Airless, air-assisted airless or conventional spray, brush, roller	
Mix ratio (by volume)	8 parts resin to 1 part cure	
Environmental conditions		
Temperature	°F	°C
air	40 to 110	4 to 43
surface	40 to 120	4 to 49

Formerly Amercoat 3144

Typical Properties

Performance

Abrasion (ASTM D4060)

CS17, 1000 cycles, 1kg 130 mg

Impact (ASTM G14) 14 in · lbs

Adhesion (Elcometer) (ASTM D4541)

600 psi

Flexibility (ASTM D522) 35%

Moisture Vapor Transmission (ASTM D1653)

Specific Permeability 0.52

Pendulum Hardness,

Konig (7 days, 70°F) 107

Temperature Resistance (dry)

°F/°C
Continuous 200/93
Intermittent 250/121

Weatherability (QUV & Florida Exposure)

Chalk Resistance 1 yr/Good
Gloss Retention 1 yr/Excellent

Salt spray (ASTM B117)

1000 hrs; 1 coat
Face Corrosion
(ASTM D1654) 10 Unaffected

Humidity/Condensation (ASTM D4585)

100 hrs; 1 coat
Face Corrosion
(ASTM D1654) 10 Unaffected

Flame Spread (ASTM E84)

Cement 5
Steel 10

Steam Cleanable Yes

Chemical resistance (ASTM D1308)

(TT-C-550C) Good

Stain Removal (TT-C-550C) Easily cleaned

Freeze/Thaw (ASTM D2243) Pass (5 cycles)

Relative humidity (maximum) °F
40 50 to 100 >100
60% 85% 95%

Surface temperatures must be at least 5°F (3°C) above dew point to prevent condensation.

Pot life/Induction times °F/°C
90/32 70/21 50/10
Pot life (hours) 4 8 16
Induction (minutes) 15 30 60

Drying times (ASTM D1640) @ 2 mils DFT °F/°C
90/32 70/21 50/10
touch (minutes) 10 30 90
through (hours) 1½ 6½ 48
full cure (days) 3 7 14

Recoat time
minimum (hours) 1½ 2 48
maximum (days) None. See surface preparation for aged coatings

Thinner Clean water

Equipment cleaner Water, Amercoat 928

Shipping Data

Packaging units 1 gal 5 gal
cure 0.11 gal in 1-pint can 0.56 gal in 1-gal can
resin 0.89 gal in 1-gal can 4.45 gal in 5-gal can
Shipping weight (approx) lb kg
1-gal unit
cure 1.2 0.55
resin 10 4.5
5-gal unit
cure 6 2.7
resin 49 22.3

Shelf life when stored indoors at 40 to 100°F (4 to 38°C)
cure and resin 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.

Systems Recommendations

Substrate	Product	Number of ¹ Coats	DFT/ Coats	Total DFT Mils
Steel	335 or	1-2	2-3	2-6
	Primer ²	1	3	
	335	1-2	2-3	5-9
Galvanizing or				
Aluminum	335	1-2	2-3	2-6
Concrete	Filler	1	Fill	
	335 or	1-2	2-3	2-6
	335	1-2	2-3	2-6
Masonry	Block filler	1	10-20	
	335 or	1-2	2-3	12-26
	335	1-2	2-3	2-6
	335	1-2	2-3	2-6
Wood	335	1-2	2-3	2-6
Drywall	335	2	2-3	4-6

Notes: 1. Choice of one or two coats depends on the severity of exposure and surface roughness.

2. Observe overcoating intervals and application instructions for primer.

Chemical Resistance Guide

Environment	Splash and Spillage	Fumes and Weather
Acidic	G	G
Alkaline	E	E
Salt solutions		
Acidic	E	E
Neutral	E	E
Alkaline	E	E
Seawater	E	E
Fresh water	E	E
Solvents	G	G
Petroleum products	E	E
G-Good	E-Excellent	

This table is only a guide to show typical resistance of Amercoat 335. Contact your Ameron Representative for your particular corrosion protection needs. Amercoat 335 is not recommended for continuous immersion service.

Application Data Summary

See Application Instructions for complete information on surface preparation, equipment, environmental conditions and application procedures. For conditions outside the requirements or limitations described, contact your Ameron representative.

Safety Precautions

Read each component's material safety data sheet before use. Mixed material has hazards of both components. 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.

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