



Performance Coatings & Finishes

# Amercoat® 229C

Epoxy acrylic gloss coating

## Product Data/ Application Instructions

- **Truly Unique** - The durability and toughness of the epoxy has been combined with the color and gloss retentive properties of the acrylic polymer to make a high performance epoxy finish coating which holds its color and gloss.
- **Compatible** - Can be applied over a wide range of primers, intermediate coats and old finish coats. It has outstanding aged recoatability properties.
- **Wide Color Range**
- **Application** - Applies to an attractive deep gloss finish.
- **Chemical Resistance** - Resistant to a broad range of chemicals.

### Typical Uses

Amercoat 229C Acrylic Epoxy Coating is a superior finish coating for:

- All above water areas on oceangoing vessels.
- All dock-side structures and equipment.
- Offshore structures
- Signal and safety colors.
- Areas subject to chemical spills and fumes, coating is not resistant to strong solvents.

Adhere to all application instructions, precautions, conditions and limitations during storage, handling, application and drying periods to obtain the maximum performance. For conditions outside the requirements or limitations described, contact your Ameron representative.

### Surface Preparation

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

**Steel** – Prepared and primed with epoxy primer.

**Aged coating** – All surfaces must be clean, dry, tightly bonded and free of all loose paint, corrosion products or chalky residue. Clean by pressure water cleaning (1000 psi or greater), SSPC-SP1, 2, 3 or 7. Amercoat 229C is compatible over most types of properly applied and tightly adhering coatings. However, a test patch is recommended for use over existing coatings.

**Fiberglass or Wood** – A clean prepared surface is required. Prime with approved epoxy primer.

Formerly Devran® 229C

### Physical Data

Finish	Gloss	
Color	See Global Marine Color Card	
<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 229C 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	2	
Curing mechanism	Solvent evaporation and chemical reaction between components	
Volume solids (calculated)	45% ± 3	
Dry film thickness per coat	1.5–2.0 mils (37.5–50 microns)	
Coats	1	
Theoretical coverage	ft <sup>2</sup> /gal	m <sup>2</sup> /L
1 mil (25 microns)	721	17.7
2 mils (50 microns)	360	8.8
VOC	lb/gal	g/L
mixed	3.2	383
mixed/thinned (1½ pt/gal)	3.5	420
Temperature resistance, dry	°F	°C
continuous	200	93
intermittent	250	121
Flash point (SETA)	°F	°C
converter	110	43
base	103	39
Amercoat 920	134	57
Amercoat 911	81	27
Amercoat 12	2	-17
T-10	80	27

### Application Data

Applied over	Prepared and primed or coated steel, and aged coatings		
Surface preparation	See specific primer or coating for steel preparation.		
aged coatings	SSPC-SP1, 2, 3 or 7		
Method	Airless or conventional spray, brush and roll		
Mixing ratio (by volume)	1 part cure to 4 parts resin		
Pot life (hours)	90/32 5	°F/°C 70/21 8	50/10 10
Environmental conditions			
Temperature	°F	°C	
air	50 to 100	10 to 38	
surface	50 to 120	10 to 49	
Surface temperatures must be at least 5°F (3°C) above dew point to prevent condensation.			
Drying time (ASTM D1640) (hours)	90/32	°F/°C 70/21	50/10
touch (hours)	1	1	2
through (hours)	6	8	16
recoat			
minimum (hours)	3	4	8
maximum (days)	30	30	30
Thinner	Amercoat 911, 920 or T-10		
Equipment cleaner	Thinner or Amercoat 12		

## Application Equipment

The following is a guide; suitable equipment from other manufacturers may be used. Changes in pressure, hose and tip size may be needed for proper spray characteristics.

**Airless spray** – Standard equipment, such as Graco Bulldog 30:1 or greater with a 0.017- to 0.021-inch spray tip.

**Conventional spray** – Industrial equipment such as DeVilbiss MBC or JGA gun with 78 or 765 air cap and “E” fluid tip, or Binks No. BBR gun with a AP21 nozzle set up. Separate air and fluid pressure regulators, mechanical pot agitator, and a moisture and oil trap in the main air supply line are recommended.

**Brush** – Natural bristle. Maintain wet edge.

**Roller** – Use industrial solvent resistance short nap roller. Level air bubbles with bristle brush.

**Power mixer** – Jiffy Mixer powered by an air or an explosion-proof electric motor.

## Application Procedure

Amercoat 229C is packaged in the correct proportions of resin and cure which must be mixed together before use.

1. Flush equipment with thinner or Amercoat 12 before use.
2. Stir each component thoroughly, then combine and mix until uniform.
3. If necessary for workability, add Amercoat 911 or 920 in quantities up to ½ pint per gallon of Amercoat 229C.
4. Do not mix more material than will be used within 8 hours at 70°F. Pot life is shortened by higher temperatures.
5. For conventional spray, use adequate air pressure and volume to ensure proper atomization.
6. Apply a wet coat in even, parallel passes; overlap each pass 50 percent.
7. Normal recommended dry film thickness is 2.0 mils .However, if a greater thickness is applied in local areas because of overlapping, no runs or sags will normally occur at a dry film thickness of up to 4.0 mils.
8. A wet film thickness of 4.0 mils will normally provide 2 mils of dry film.
9. Clean all equipment with thinner or Amercoat 12 immediately after use.

No induction time is necessary.

## Shipping Data

Packaging unit	1 gal	5 gal
cure	1-qt	1-gal can
resin	1-gal can	5-gal can
Shipping weight (approx)	lb	kg
1-gal unit		
cure	3	1.3
resin	11	5.0
5-gal unit		
cure	9	3.9
resin	55	15.0

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

Numerical values are subject to normal manufacturing tolerances, colors and testing variances. Allow for application losses and surface irregularities.

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

## Safety Precautions

Read each component's material safety data sheet before use. Mixed material has hazards of each component. Safety precautions must be strictly followed during storage, handling and use.

**CAUTION – Improper use and handling of this product can be hazardous to health and cause fire or explosion.**

**Do not use this product without first taking all appropriate safety measures to prevent property damage and injuries. These measures may include, without limitation: implementation of proper ventilation, use of proper lamps, wearing of proper protective clothing and masks, tenting and proper separation of application areas. Consult your supervisor. Proper ventilation and protective measures must be provided during application and drying to keep spray mists and vapor concentrations within safe limits and to protect against toxic hazards. Necessary safety equipment must be used and ventilation requirements carefully observed, especially in confined or enclosed spaces, such as tank interiors and buildings.**

**This product is to be used by those knowledgeable about proper application methods. Ameron makes no recommendation about the types of safety measures that may need to be adopted because these depend on application environment and space, of which Ameron is unaware and over which it has no control.**

**If you do not fully understand these warnings and instructions or if you cannot strictly comply with them, do not use the product.**

**Note:** Consult Code of Federal Regulations Title 29, Labor, parts 1910 and 1915 concerning occupational safety and health standards and regulations, as well as any other applicable federal, state and local regulations on safe practices in coating operations.

***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.

## 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.**



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