



Performance Coatings & Finishes

# Amercoat® 146

Waterborne acrylic primer

## Product Data/ Application Instructions

- Fast dry primer
- Low VOC
- Single package convenience
- Excellent hardness
- Quick, easy clean up

### Typical Uses

- New construction
- Industrial maintenance
- Structural steel
- Tank exteriors
- Dry fall applications - most conditions\*

### Surface Preparation

Prior to coating, all surfaces must be undamaged, clean, dry and free of all contaminants, including salt deposits.

Coating performance is proportional to the degree of surface preparation. Clean surface thoroughly to remove any dust, dirt, grease, oil, loose paint or other contaminants. Clean by using scrub brushes and detergent.

**Steel** – Remove all loose rust, dirt, grease or other contaminants by one of the following depending on the degree of cleanliness required: SSPC-SP3; SSPC-SP6; SSPC-SP7; or SSPC/NACE WJ-2L\*. For more severe service, clean to SSPC-SP10. The choice of surface preparation will depend on the system selected and end-use service conditions.

\*Note: For maintenance only of substrates previously abrasive blasted to SSPC-SP6, or better.

**Galvanizing** – Remove oil, grease or soap film with neutral detergent or emulsion cleaner; treat with Galvaprep® or equivalent or blast lightly with fine abrasive.

**Concrete/masonry** – Clean concrete surface, abrasive blast ASTM D4259 or acid-etch ASTM D4260. Fill concrete voids with Nu-Klad® 965 or 114A. Clean masonry surface by ASTM D4261. Fill masonry block with Amerlock® 400BF Block filler.

**Aged coatings** – All surfaces must be clean, dry, tightly bonded and free of all loose paint, corrosion products or chalky residue. Clean by SSPC SP-12 low pressure water cleaning (1000 psi or greater), SSPC-SP1, SSPC-SP3 or SSPC-SP7.

**Drywall** – Tape all joints, fill cracks and nail holes with patching paste; sand smooth. Remove all dust. Unsealed surface will require two coats of Amercoat 146.

**\*Caution:** Overspray can be wiped or washed from most surfaces. Satisfactory dry-fall performance depends upon height of work, weather conditions and equipment adjustment. Low temperature and high humidity will impair dry fall properties. Test for each application as follows: Spray from 15 to 25 feet towards a test surface. Wipe or wash off surface to confirm satisfactory removal of overspray.

**Note:** Heat can cause overspray to adhere to surfaces. Always clean overspray from hot surfaces before adhesion occurs. Be aware that exterior surface temperatures can be higher than air temperature.

### Physical Data

Finish	Semi-gloss	
Color	Off-white, ANSI #70 Gray	
Components	1	
Curing mechanism	Drying	
Volume solids (calculated)	40% ± 3%	
Dry film thickness per coat	2 – 3mils (50 – 75 microns)	
Coats	1 to 2	
Theoretical coverage	ft <sup>2</sup> /gal	m <sup>2</sup> /L
2 mils (50 microns)	320	7.1
3 mils (75 microns)	213	4.7
VOC	0.9 lb/gal	107 g/L
Flash point (SETA)	°F	°C
Amercoat 146	>200	>93

### Application Data

Applied over	Prepared steel
Surface preparation	SP1, 3, 6, 7, 10, 12
Application Method	Airless or conventional spray*, brush, roll

Environmental conditions		
Temperature	°F	°C
air	50 to 110	10 to 43
surface	50 to 120	10 to 49

*Cracking may occur at temperatures below 50°F during initial drying.*

Relative humidity	
50 to 100°F	maximum 85%
above 100°F	maximum 95%

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

Drying time (ASTM D1640) at 2 mils DFT

	°F/°C		
	90/32	70/21	50/10
touch (minutes)	15	30	45
through (minutes)	30	45	90
Recoat time			
minimum (minutes)	30	45	90
maximum	None. See surface preparation for aged coatings.		

Thinner	Fresh water
Equipment cleaner	Fresh water

*Formerly Amercoat 3429*

## Application Equipment

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

**Airless spray** – Standard equipment such as Graco Series 600. Tip sizes from 0.015- to 0.019-inch fluid tip.

**Conventional spray** – Industrial equipment, such as DeVilbiss, MBC or JGA spray gun. Separate air and fluid pressure regulators and a moisture and oil trap in the main air supply line are recommended.

**Power mixer** – Jiffy Mixer

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

**Roller** – Industrial solvent resistant roller. Level any air bubbles with bristle brush.

## Application Procedure

1. Flush equipment with fresh water before using.
2. Stir material thoroughly to a workable consistency to ensure suspension of pigments. Thinning is not normally required. If thinning is required for workability, add up to ½ pt of water per gallon of Amercoat 146. Do not exceed thinning limit or film build will be reduced.
3. Apply a wet coat in even, parallel passes; overlap each pass 50 percent to avoid bare areas, and pinholes. If required, cross spray at right angles.  
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**Note:** Heat can cause overspray to adhere to surfaces. Always clean overspray from hot surfaces before adhesion occurs. Be aware that exterior surface temperatures can be higher than air temperature.
4. Ventilate with clean air during application and drying. Temperatures and relative humidity of ventilating air will affect drying times. Avoid contact with water or condensation on the coated surface until dry through; otherwise, surface discoloration may occur.
5. Clean all equipment immediately after use with fresh water to remove any partially dried material.

## Safety Precautions

Read 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.**

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 mist and solvent 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 interior 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.*



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## Shipping Data

Packaging	1 gal	5 gal
Shipping weight (approx)	lb	kg
1-gal can	11	5
5-gal can	55	25

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.

## 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.**