



AMERON
INTERNATIONAL

Performance Coatings & Finishes

Amercoat® 5450

Alkyd gloss topcoat

Product Data/ Application Instructions

- High gloss high performance alkyd topcoat
- Good weathering properties
- Good application characteristics
- Good drying properties
- VOC compliant at 3.5 lb/gal

Typical Uses

Amercoat 5450 alkyd topcoats are designed to protect and enhance the appearance of:

- Marine exterior areas such as freeboards, decks, houses and superstructures; interior areas such as engine rooms, passageways and equipment.
- Power plants
- Industrial structures, tanks, piping and equipment
- Railcars
- Wastewater Treatment plants and equipment
- Bridges

Amercoat 5450 is a gloss alkyd topcoat used for weathering, mild industrial and marine services. Color and gloss retention during continuous weathering exposure is typical of high quality gloss alkyds. Amercoat 5450 will not resist severe chemical, splash or immersion conditions.

Surface Preparation

Coating performance is, in general, proportional to the degree of surface preparation. Refer to specifications for the specific primer being used. Prior to coating, all surfaces must be clean, dry, undamaged and free of all contaminants, including salt deposits. Refer to specific primer application instructions for more information. For conditions outside the requirements or limitations described, contact your Ameron representative.

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 Hydra-Spray 30:1 or larger with a 0.013- to 0.021-inch fluid tip.

Conventional spray - Industrial equipment such as DeVilbiss MBC or JGA spray gun with a 78 or 765 air cap and "E" fluid tip or Binks No. 18 or 62 spray gun with a 66 x 63 PB nozzle setup. 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 a wet edge.

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

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

Physical Data

| | | |
|--|-----------------------------------|-------------------|
| Finish | High gloss | |
| Color | See color card | |
| Components | 1 | |
| Curing mechanism | Solvent release and air oxidation | |
| Volume solids (ASTM D2697 modified) | 45% ± 3% | |
| Dry film thickness per coat | 1.5-2.5 mils (38-63 microns) | |
| Coats | 1 | |
| <i>When white or light colors specified, 2 coats may be required, depending on primer color.</i> | | |
| Theoretical coverage | ft ² /gal | m ² /L |
| 1 mil (25 microns) | 722 | 17.8 |
| 2 mils (50 microns) | 361 | 8.9 |
| VOC (EPA 24) | lb/gal | g/L |
| Amercoat 5450 | 3.34 | 401 |
| Flash point (SETA) | °F | °C |
| Amercoat 5450 | 98 | 37 |
| Amercoat 15 | 106 | 41 |
| Amercoat 12 | 2 | -17 |

Application Data

| | | |
|--|--|---------|
| Applied over | Prepared and primed steel | |
| Primer | Amercoat 1000, 5105 | |
| Ameron Epoxy Coating* | Amercoat 230, 235, 370, 385, Amerlock 400 | |
| Surface preparation | See specific primer | |
| Method | Airless or conventional spray, brush, roller | |
| Environmental conditions | | |
| Temperature | °F | °C |
| air and surface | 45 to 100 | 7 to 38 |
| Surface temperatures must be at least 5°F (3°C) above dew point to prevent condensation. | | |
| Drying time @ 2 mils (ASTM D1640) | °F/°C | |
| (hours) | 70/21 | |
| touch | 2 | |
| hard | 12 | |
| through | 24 | |
| recoat | | |
| minimum | 12 | |
| maximum | Unlimited | |
| Thinner | Amercoat 15 | |
| Equipment cleaner | Amercoat 12 or 15 | |

** When applied over epoxy coatings, the minimum topcoat time for the epoxy coating with Amercoat 5450 is dry hard time. The maximum topcoat time for the epoxy coating with Amercoat 5450 is 3 times dry hard time.*

Formerly Bar-Ox® 450

Application Procedures

1. Clean all equipment with thinner or Amercoat® 12.
2. Stir material thoroughly with mixer until uniformly blended. Strain through cheesecloth or equivalent to remove skin particles or other contamination.
3. If needed for workability, use up to 1/2 pint Amercoat 15 per gallon of Amercoat 5450.
4. Apply a wet coat in even, parallel passes; overlap each pass 50 percent to achieve a dry film thickness of 1.5 to 2.0 mils. If required, cross spray pass at right angles.

Note: Do not apply when the relative humidity is high and condensation is possible. Substrate temperature must be 5°F (3°C) above dew point to prevent condensation. Drying will be retarded below 39°F (4°F).

5. Repair or touch up, respray large areas with original thickness, brush or roll smaller areas.
6. Store unused materials in tightly closed containers. Partially filled containers may show surface skinning after storage. Remove skin by straining before use.
7. Clean all equipment with Amercoat 15 or 12 immediately after use.

Repair

Prepare damaged areas to original surface preparation specifications, feathering edges of intact coating. Thoroughly remove dust or abrasive residue before touch-up.

Safety Precautions

Read material safety data sheet before use. 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.

Shipping Data

| | | |
|---|---------------------------|------|
| Packaging | 1- and 5-gal cans | |
| Shipping weight (approx) | lb | kg |
| 1-gal can | 10.5 | 4.7 |
| 5-gal can | 52 | 23.6 |
| Shelf life when stored indoors at 40 to 100°F (4 to 38°C) | 1 year from shipment date | |

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

This product is nonphotochemically reactive as defined by 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.**



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