



Performance Coatings & Finishes

ABC[®] #1

(Formerly Amercoat 698HS)

Self-Polishing Antifouling Coating

RESTRICTED USE PESTICIDE Product Data/ Application Instructions (For Marine & Offshore Use)

- High-solids, minimally polishing, organotin copolymer antifouling coating for use on vessels trading in all types of navigable waters
- Long-term protection against barnacles, algae, hydroids and other types of marine fouling
- Avoids excessive coating wear
- Provides for hull roughness control

High Solids – ABC #1 is a new generation antifouling coating based on the most current polymer technology. The high-solids content of ABC #1 provides improved economy in application costs, time and reduction in volume of coating used.

ABC #1 is designed to release a constant amount of balanced toxicant to achieve control without excessive erosion. Hence, the environmental hazard potential is minimized along with material costs. ABC #1 is equally effective whether the vessel is stationary or moving at full speed.

Roughness and Fuel Consumption – The ABC #1 antifouling system is truly economical, minimizing drag and keeping it under control. Typical applications include the following:

1. The surface is initially prepared by sandblasting to remove old coating and corrosion and reduce profile to 75 to 100 microns. When the vessel is new, prepared surface roughness should be close to this value.
2. An Ameron-recommended anticorrosive system and 2 coats of ABC #1 are applied. In most cases, this will reduce micro-roughness to the 20- to 25-micron range, approaching hydro dynamic smoothness.
3. For maintenance and repair, the existing coating having a roughness of 200 to 250 microns can be reduced to the range of 20 to 25 microns by using an Ameron-recommended tiecoat and 2 coats of ABC #1.
4. Because ABC #1 is polishing, gross surface imperfections due to application will be reduced in service. Further, because ABC #1 is hard relative to the usual polishing type coatings, major changes in surface micro-roughness will be minimal during its service life and it will not be subject to excessive damage and wear.

Ablation or Erosion – Because of its design, ABC #1 does not depend on erosion to deliver toxicant or to achieve drag control. The measured erosion rate of ABC #1 at 15 knots is less than 6 microns per month. This low polishing rate provides a mechanism for removal of physical imperfections, but does not sacrifice coating life.

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. It is unlawful to use this product on non-aluminum hulled vessels less than 82 feet (25 meters) in length (on deck) except for the outboard motor or lower drive unit of such vessels. Users must comply with all applicable OSHA requirements.

Strict adherence to all application instructions, precautions, conditions and limitations is necessary to obtain maximum performance. For conditions outside the requirements or limitations described, contact your Ameron representative.

Physical Data¹

Finish	Flat	
Color	Red, medium gray, black, green, blue	
Components	1	
Curing mechanism	Solvent release	
Volume solids (ASTM D2697)	54% ± 3%	
Dry film thickness	6 mils (150 microns)	
Coats	2	
Theoretical coverage	ft ² /gal	m ² /L
1 mil (25 microns)	866	21.2
6 mils (150 microns)	144	3.5
VOC (EPA Method 24)		
ABC #1	3.1 lb/gal (372 g/L)	
ABC #1 thinned (1/2 pt/gal)	3.3 lb/gal (396 g/L)	
Flash point (SETA)	°F	°C
ABC #1	72	22
Amercoat 65	78	25
Amercoat 101	145	63
Amercoat 12	2	-17

Application Data

Applied over ²	Amercoat 385 or Bar-Rust 235	
Surface preparation	Abrasive blast or high pressure water cleaning	
Method	Airless or conventional spray	
Environmental conditions		
Temperature air and surface	°F	°C
	0 to 120	-18 to 49
Surface temperature at least 5°F (3°C) above dew point to prevent condensation		
Drying and cure times (ASTM D1640) (hours)		
	°F/°C	
	90/35	70/2150/10 32/0 0/-18
recoat	1	2 4 8 24
immersion	8	16 24 48 96
Thinner	Amercoat 65, 101	
Cleaner	Thinner or Amercoat 12	

Shipping Data

Packaging	1- and 5-gal container	
Shipping weight (approx.)	lb	kg
1-gal unit	16.9	7.7
5-gal unit	79.7	36.2

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

¹ Numerical values are subject to normal manufacturing tolerances, colors and testing. Allow for application losses and surface irregularities.

² When applying ABC #1 antifouling coating over epoxy or coal-tar epoxy anticorrosive coatings, apply first coat of antifouling while anticorrosive is still tacky or soft to fingernail. At temperatures above 50°F (10°C), the topcoat time will be between 4 and 8 hours. At temperatures below 50°F (10°C), the topcoat time will be within 48 hours. Failure to apply antifouling coating while anticorrosive is still tacky may result in poor adhesion between coatings and eventual delamination of antifouling from the anticorrosive.

Surface Preparation

Coating performance, in general, is proportional to the degree of surface preparation.

Depending upon condition of hull and existing antifouling, surface cleaning will vary from high pressure water cleaning to abrasive blasting. After immersion service of ABC #1 or Amercoat 698, high pressure water wash is required prior to topcoating with additional ABC #1.

Apply over suitable primer system or clean, intact, existing bottom system.

Steel – Prepare surface in accordance with instructions for anticorrosive coating to be used.

Cleaning After Service

Existing fouled surfaces – Remove fouling by scraping and/or sand sweeping. Loose paint should be removed by high-pressure water wash. Tightly adhering anticorrosive and antifouling coating may remain.

Non-fouled surfaces – High-pressure water wash.

Application Instructions

The following is a guide. Suitable equipment from other manufacturers may be used. Changes in pressure and tip size may be needed to achieve proper spray characteristics.

Airless spray – Standard equipment, such as Graco Bulldog Hydra-Spray or larger, with a 0.019-inch fluid tip, 28:1 or high pump ratio.

Conventional spray – Industrial equipment such as DeVilbiss MBC spray gun with 765 air cap, "E" tip, 15 to 20 psi pot, 68 to 80 psi gun. A moisture and oil trap in the main air supply line and mechanical pot agitator are recommended. Separate air and fluid pressure regulators are recommended.

Application Procedure

1. Flush all equipment with Amercoat 12 or 65 before use.
2. Stir material thoroughly and keep stirring during application to insure pigment suspension.
3. Thinning is normally not required. If thinning is necessary for workability, thin with up to 1/2 pint Amercoat 65 or 101 per gallon of ABC #1.
4. Apply a wet coat in even, parallel passes, overlapping each pass 50 percent to avoid holidays, bare areas and pinholes. If required, cross-spray at right angles.
5. Observe drying and curing times for specific anticorrosive coating.
6. ABC #1 may air dry up to 2 months before immersion.
7. Clean equipment with Amercoat 12 immediately after use.

ABC #1 – Danger! Corrosive. Contains xylene, tributyltin methacrylate copolymer, zinc oxide, cuprous oxide.

Precautionary Statements

Restricted Use Pesticide – Due to Toxicity of Aquatic Organisms including Shellfish: For sale only to certified commercial applicators and for use only by certified commercial applicators or by persons under the direct supervisor of an on-site (at the work site) certified commercial applicator.

Hazards to Humans (and Domestic Animals)

Danger! Corrosive. Causes skin burns. Wear protective clothing such as gloves, long-sleeved cotton shirt, long pants and hat. Fatal if inhaled. Causes eye irritation. May be fatal if swallowed. Harmful if absorbed through skin. This product may be a dermal sensitizer. Do not get in eyes, on skin or clothing. Do not breath vapor; spray mist; dust or chips from sanding. Wear a mask or respirator jointly approved by the Mining Safety and Health Administration and the National Institute for Occupational Safety and Health. Wash thoroughly with soap and water after handling and before eating or smoking. Use with adequate ventilation.

Statement of Practical Treatment – If swallowed, drink promptly a large quantity water. Avoid alcohol. Get medical attention.

Note to Physician – Probable mucosal damage may contraindicate the use of gastric lavage. **If in eyes:** Flush with plenty of water. Get medical attention. **If on skin:** Wash with plenty of soap and water. Get medical attention. **If inhaled:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.

Environmental Hazards – This pesticide is toxic to aquatic organisms including fish and shellfish.

Physical or Chemical Hazards – Flammable. Keep away from heat, sparks, arc and open flame. In case of spillage, eliminate all sources of ignition.

POISON



Directions for Use – It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. It is unlawful to use this product on non-aluminum hulled vessels less than 82 feet (25 meters) in length (on deck) except for the outboard motor or lower drive unit of such vessel. Users must comply with all applicable OSHA requirements.

Storage and Disposal – Keep container closed when not in use. Store in cool, dry, well-ventilated area. Do not contaminate water, food or feed by storage or disposal.

Pesticide Disposal: Paint chips, spent abrasive, and any other waste materials from removal of old paint must be disposed of in a sanitary landfill (or, if required by Federal State or local regulations, handled as a hazardous waste). If possible, use all of the contents by application according to label instructions. Manage excess paint, rinsate, and other application wastes in accordance with Federal, State, and local requirements. Consult your State pesticide or Environmental control agency, nearest EPA Regional Office, or the RCRA/Superfund Hotline (800-424-9346) for waste disposal guidance.

Container Disposal: Triple rinse container if intended for recycling or reconditioning. Empty paint containers with small amounts of dried residue must be disposed of in a sanitary landfill (or, if required by Federal, State or local regulations, handled as a hazardous waste).

Improper use and handling of this product can be hazardous to health and cause fire or explosion. Proper ventilation and protective measures must be provided during application and drying to keep solvent vapor concentrations within safe limits and to protect personnel against toxic hazards. This is especially true in confined spaces such as tank interiors. 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. Necessary safety equipment must be used and ventilation requirements carefully observed, especially in confined or enclosed spaces.

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

This product is for industrial use only. Not for residential use. Not for use in Ventura County, California.

Warranty

This Warranty pertains to a product containing chemicals required to be registered with the U. S. Environmental Protection Agency and supersedes Section 6 of Ameron Protective Coatings Division's Standard Terms and Conditions of Sale as listed on the invoice.

Ameron warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the directions for use, subject to the inherent risks referred to below. Ameron makes no other warranty express or implied of fitness or merchantability or any other express or implied warranty. If a product does not conform with this Warranty, Buyer must notify Ameron within five days of discovery of the defect, but in no event later than one year after delivery date or the expiration of the applicable shelf life, whichever is shorter. Ameron's sole obligation under this Warranty shall be at its option, to credit Buyer's account, or to supply replacement material or repair. Failure to notify Ameron of nonconforming goods under this Warranty, within the time specified above, shall bar Buyer from recovery hereunder. In no case shall Ameron be liable for consequential, special, indirect, punitive or other damages resulting from the use or handling of this product. Ameron offers this product and Buyer accepts it, subject to the conditions of sale and warranty which may be varied only by a written agreement signed by a duly authorized representative of Ameron.

The directions for use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials or the manner of use or application, all of which are beyond Ameron's control. All such risks are assumed by Buyer.

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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