

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JAN 06 1992

Ameron Protective Coatings Division  
201 N. Berry Street  
P.O. Box 1020  
Brea, CA 92621

Attention: Christine Stanley

Subject: Amercoat 277E Antifouling Black  
EPA Registration No. 8120-26  
Your Submission Dated August 13, 1992

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, to update your product labeling is acceptable. A stamped copy of the label is included for your records.

Please note that the correct percentage of the active ingredient (i.e., 55.2% Cuprous Oxide and not 52.5% Cuprous Oxide) should be displayed on your label. The agency apologizes for its error calculating your last submitted Confidential Statement of Formula.

If you have any questions concerning this letter please contact Marshall Swindell at (703) 305-6908.

Sincerely yours,



John H. Lee  
Product Manager 31  
Antimicrobial Programs Branch  
Registration Division (H7505C)

CONCURRENCES

SYMBOL								
SURNAME								
DATE								

PM 31

8120-26

**BEST AVAILABLE COPY**

**Precautionary Statements - Hazards to Humans (and Domestic Animals):** Warning! Vapor and spray mist can be harmful; irritating to eyes, skin, mucous membranes and respiratory system. Can cause headache, nausea, dizziness, asphyxiation or lung injury. Can be harmful if inhaled or swallowed. Possible eye and skin burns or injury. Overexposure to spray mist can damage kidneys, liver and blood.

**Statement of Practical Treatment -** For overexposure to vapor, spray mist or dust, provide fresh air; if breathing is labored, give artificial respiration or oxygen. For skin contact, wash thoroughly with soap and water. For eyes, flush immediately with plenty of water for at least 15 minutes and get medical attention. If swallowed, drink 1 or 2 glasses of water to dilute. Do not induce vomiting. Avoid alcohol. Consult physician or poison control center immediately. Treat symptomatically.

**Hygienic Practices -** Wash thoroughly after use and before eating, smoking or using washroom. Keep away from feed or food products. Launder contaminated clothing before use.

**Physical or Chemical Hazards: Flammable.** Keep away from heat, sparks, arc and open flame. Avoid breathing vapor, dust, spray mist or contact with eyes and skin. Use adequate ventilation during mixing, application and drying. Reports associate repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Wear protective equipment such as goggles, face protection, gloves, full protective clothing and properly fitted, positive-pressure, air-supplied respirator (TC 19C NIOSH/MSHA) during mixing, spraying and until all vapors and mists are gone. In confined, poorly ventilated areas, use airline, hood-type respirator and explosion- and spark-proof equipment. Welding and cutting can produce hazardous fumes and gases; follow the American National Standard Z49.1, "Safety in Welding and Cutting."

FOR USE IN COMMERCIAL SHIPYARDS ONLY

# AMERCOAT® 277E -Black Antifouling

Made in accordance with formula 129

Active ingredients:  
Cuprous Oxide  
Inert Ingredients:

55.2%  
44.8%  
100.0%

Copper as Metallic: 60.5%

**KEEP OUT OF REACH OF CHILDREN**

## WARNING

EPA Est. No.: 8120-CA-1  
EPA Registration No.: 8120-26

See other cautions on side panel and MSDS. Use only in accordance with instructions accompanying shipment.

Fire - Blanket flames with  
Wear NIOSH/MSHA certified  
supplied respirators.

Spillage - Eliminate all sources  
Use absorbent cleanup material  
closed, metal container and  
with all applicable regulations.

Environmental Hazards -  
fish Do not apply directly to  
equipment, disposal of waste  
and dust generated during  
water. Dispose of paint debris  
Directions for Use - It is a violation  
use this product in a manner  
labeling See Product Data Sheet  
instructions.

Storage and Disposal: Store in  
ventilated area. Keep container  
when not in use. Do not consume  
feed by storage or disposal.  
Pesticide wastes are toxic to  
product or its rinsate is a violation  
this product cannot be disposed  
to label instructions, contact  
Environmental Control Agency  
Hazardous Waste. Container  
equivalent. Then offer for recycling  
puncture and dispose of in  
approved state and local procedures.  
**WARRANTY -** Refer to Ameron  
for Ameron's warranty and apply  
this product.

**NONPHOTO-CHEMICAL**  
DOT - Paint UN - 1263  
VOC: 324 g/L, 2.7 lbs/gal  
VOC/thinned, 10E (1pt/gal)  
HMIS - H3 F3 R0

Net



Protective Coatings Division • Home Office; 201 N. Berry Street, Brea, California  
• J.F. Kennedylaan 7,4191 MZ Geldermalsen, The Netherlands

RECORDED  
WITH COMMENTS  
in EPA Letter Search  
JAN 06 1993  
Under the Freedom of Information Act  
Request for the Product No.  
8120-26  
EPA Reg. No.

- vinyl, cuprous oxide and cuprous sulfide on ship hulls
- Comply with MIL-P-15931D grades A and B

## Typical Uses

Contact Ameron Technical Service Department for recommendations on anticorrosive coatings systems compatible with Amercoat 275E or 277E.

## Application Instructions

Surface preparation-Prepare in accordance with instructions for anticorrosive coating to be used.

**Caution:** When applying Amercoat 275E/277E antifouling coating over epoxy or coal-tar epoxy anticorrosive coatings, apply first coat of antifouling while anticorrosive (epoxy or coal-tar epoxy) is still tacky or soft to nail pressure. 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.

## 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 with a minimum capacity of 2500 psi (175.8 kg/cm<sup>2</sup>) using available air supply. Can be sprayed with tips from 0.017- to 0.025-inch orifice.

**Conventional spray** - Industrial equipment such as DeVilbiss MBC gun with 704 air cap and "E" fluid tip, 15 to 20 psi (1.0 to 1.4 kg/cm<sup>2</sup>) gun pressure. Separate air and fluid pressure regulators, mechanical pot agitator and a moisture and oil trap in the main air supply line are recommended.

## Application Procedure

1. Flush all equipment with Amercoat 10E thinner.
2. If thinning is necessary for workability, add up to 1 pint Amercoat 10E per gallon of Amercoat 275E or 277E and stir thoroughly.
3. Apply a wet coat in even parallel passes, overlap each pass 50 percent to avoid holidays, bare areas and pinholes. Cross spray at right angles to first pass.
4. Clean all equipment with Amercoat 10E immediately after use.

Components	1		
Curing mechanism	Solvent release		
Volume solids (calculated)	63% ± 3%		
Dry film thickness per coat	2 mils (50 microns)		
Theoretical coverage	ft <sup>2</sup> /gal	m <sup>2</sup> /L	
1 mil (25 microns)	1010	24.8	
2 mils (50 microns)	505	12.4	
VOC	lb/gal	g/L	
275E/277E	2.7	324	
275E/277E, thinned (1p/vgal)	3.2	383	
Flash point (SETA)	°F	°C	
Amercoat 275E/277E	84	29 TCC	
Amercoat 10E	27	-3 SETA	

## Application Data

Applied over	Vinyl or epoxy anticorrosive coatings		
Surface preparation	Check anticorrosive coating		
Method	Airless or conventional spray		
Environmental conditions			
Temperature	°F	°C	
air and surface	0 to 120	-18 to 49	
Surface temperatures must be at least 5°F (3°C) above dew point to prevent condensation.			
Drying time (ASTM D1640) (hours)			
	°F/°C		
	70/21		
recoat	2		
topcoat	4		
Time before immersion at 2 mils	16		
Thinner	Amercoat 10E		
Equipment cleaner	Amercoat 10E		

## Shipping Data

Packaging	5 gal can	
Shipping weight (approx)	lb	kg
5-gal can		
275E	103	46.9
277E	102	46.5

Shelf life when stored indoors at 40 to 100°F (4 to 38°C)  
275E and 277E 1 year from shipment date

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

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

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RECORDED with COMMENTS in EPA Letter Book

JAN 06 1983

Use for Federal Insecticide, Fungicide, and Herbicide Act as amended, for the Pesticide registered under EPA Reg. No. 8120-26

**Proper Ventilation and Protective Measures** - For overexposure to vapor, spray mist or dust, provide fresh air; if breathing is labored, give artificial respiration or oxygen. For skin contact, wash thoroughly with soap and water. For eyes, flush immediately with plenty of water for at least 15 minutes and get medical attention. If swallowed, drink 1 or 2 glasses of water to dilute. Do not induce vomiting. Avoid alcohol. Consult physician or poison control center immediately. Treat symptomatically.

**Hygienic practices** - Wash thoroughly after use and before eating, smoking or using washroom. Keep away from feed or food products. Launder contaminated clothing before use.

**Physical or Chemical Hazards:** Flammable. Keep away from heat, sparks, arc and open flame. Avoid breathing vapor, dust, spray mist or contact with eyes and skin. Use adequate ventilation during mixing, application and drying. Reports associate repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Wear protective equipment such as goggles, face protection, gloves, full protective clothing and properly fitted, positive-pressure, air-supplied respirator (TC 19C NIOSH/MSHA) during mixing, spraying and until all vapors and mists are gone. In confined, poorly ventilated areas, use airline, hood-type respirator and explosion- and spark-proof equipment. Welding and cutting can produce hazardous fumes and gases; follow the American National Standard Z49.1, "Safety in Welding and Cutting."

**Fire** - Blanket flames with foam, CO<sub>2</sub>, dry chemical. Wear NIOSH/MSHA certified, self-contained air-supplied respirators.

**Spillage** - Eliminate all sources of ignition or sparks. Use absorbent cleanup materials; place in separate, closed, metal container and dispose of in accordance with all applicable regulations.

**Environmental Hazards** - This material is toxic to fish. Do not apply directly to water by cleaning equipment, disposal of wastes. Do not allow chips and dust generated during paint removal to enter water. Dispose of paint debris in an approved landfill.

**Directions for Use** - It is a violation of Federal Law to use this product in a manner inconsistent with its labeling

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

**Pesticide Disposal:** Pesticide wastes are toxic. Improper disposal of this product or its rinsate is a violation of Federal Laws. If this product cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or Regional EPA Office, Hazardous Waste.

**Container Disposal:** Triple rinse or equivalent. Then offer for recycling, reconditioning or puncture and dispose of in a landfill, or by other approved state and local procedures.

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 those 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 in California.*

## 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's 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.

**Ameron.**  
Protective Coatings  
Division

201 North Berry Street, Brea, California 92622-1020 • J. F. Kennedylaan 7, 4191 MZ Geldermalsen, The Netherlands

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