



# ULTRACOTE 1270 AF

(MIL-P-24441, Formula #121)

## (Paints & Coatings)

## HEAVY DUTY, HIGH PERFORMANCE

**GENERIC CLASS:** Vinyl resin based composition with organo-tin compound and copper oxide as bioxide.

**PRODUCT DESCRIPTION:** Ultracote 1270 AF performs excellent anti-fouling effect for long term protection of steel hulls in tropical water. This coating is also suitable for areas that sometimes "dry out" as they reactivate when re-immersed. This coating is a fast drying, tough and water abrasion resistance and exhibits excellent adhesion to various anti-corrosive coatings. Under normal conditions, it can be expected to give freedom from fouling from 18 to 24 months.

**TYPICAL USES:** Ultracote 1270 AF is recommended as algae preventive and anti-fouling topcoat for ships side and bottom cruising in tropical water. It is also use for protection of marine growth on barges, tug boats and offshore structures and equipment.

**LIMITATIONS:** Not suitable for coating directly to steel or zinc primers.

### CHEMICAL RESISTANCE EXPOSURE:

Exposure	Immersion	Splash & Spillage	Fumes
Acids	NR	Good	Good
Alkalies	NR	Good	Good
Solvents	NR	Poor	Poor
Salts	Excellent	Excellent	Excellent
Water	Excellent	Excellent	Excellent

### TEMPERATURE RESISTANCE: (Dry Basis)

Sustained	:	160°F (71°C)
Intermittent	:	190°F (88°C)

**WEATHERING:** Very Good. Conform to salt spray ((fog test) ASTM B117-73).

**FLEXIBILITY:** Excellent. ASTM D522-60.

**ABRASION RESISTANCE (Water):** Excellent

**ADHESION:** Very Good. Conform to ASTM D3359 Method B.

**7SUBSTRATES:** Apply over recommended anti-corrosive coatings, coaltar epoxies and others as recommended.

**TOPCOAT:** None required. May be topcoated by itself.

**COMPATIBILITY WITH OTHER COATINGS:** May be applied over vinyls, epoxies, epoxy coaltars and chlorinated rubbers.

### CALCULATED VOLUME SOLIDS:

Ultracote 1270 AF 40±2%

### RECOMMENDED DRY FILM THICKNESS PER COAT:

2 - 3 mils (50 - 75 microns)

### CALCULATED COVERAGE PER GALLON:

641.6 sq. ft. per mil (15.75 sq. m./ li. @ 25 microns)  
 320.8 sq. ft. @ 2 mils (7.88 sq. m./ li @ 50 microns)  
 213.8 sq. ft. @ 3 mils (5.25 sq. m./ li @ 75 microns)

**NOTE:** Assume loss factor when estimating job requirements at prevailing condition.

**SHELF LIFE:** 12 months. Turn stock upside down every 3-4 months.

**COLORS:** Red Oxide and Black.

**FINISH:** Flat and Semi-gloss.

**COMPONENT:** One

**FLASH POINT:** (Pensky-Martens Closed-Cup)  
 Ultracote 1270 AF 90°F (32.2°C)

**SURFACE PREPARATION:** It is recommended that surfaces to be coated shall be clean, free from dirt, grease, oils and other contaminants. Clean with rags soaked with Ultracote Thinner #2 or toluol.

**CARBON STEEL:** The anti-corrosive shall be properly cured and free of surface contamination and moisture to ensure adhesion. Touch up all damaged and bare areas with the recommended anti-corrosive system prior to application of the anti-fouling.

**WOOD:** Apply over clean and dry surface.

**WELDING:** Welding should precede coating. In the event welding or flame cutting is performed on metal already coated with this product, do so in accordance with the latest instruction in USA Standard Z49:1 "Safety in welding and cutting". All welded, burned or otherwise damaged areas should be cleaned to base metal, prepared and recoat as specified.

**MIXING:** Stir very thoroughly before use and occasionally during application making sure no pigment remains on the bottom of the can.

**NOTE:** This product contains cuprous oxide and is poisonous if taken orally. Avoid contact with mouth and throat.

**THINNER:** Thinning not recommended.

**APPLICATION TEMPERATURES:**

Materials : 45-100°F (7-38°C)  
Surfaces : 35-150°F (2-67°C)  
Ambient : 35-100°F (2-43°C)  
Humidity : 0-95%

Application at air and surface temperature lower than 100°F (43°C) and above 35°F (2°C) and more than 5°F (2°C) above the dew point is suggested.

**SPRAY TECHNIQUE:** Use sufficient air volume for correct operation of equipment. Use a 50% overlap with each pass of the gun. On irregular surfaces, coat the edges first, making an extra pass later.

**APPLICATION EQUIPMENT:** Airless and Conventional Sprays, brush and rollers.

**CONVENTIONAL SPRAY:** Use 3/8" I.D. minimum material hose and 5/16" air hose. Hold gun 8-10 inches from the surface at perpendicular position. Binks #18 or 62 with fluid tip of 66 and air cap of 66 PB. DeVilbiss P-MBC or JGA model with fluid tip E and air cap of 704.

**AIRLESS SPRAY:** Use 1/4" I.D. minimum material hose and 3/8" air hose. Hold gun 12-14 inches from the surface at perpendicular position. DeVilbiss JGB-507 with pump QFA-514 at 32:1 ratio or Graco 205-591 with pump Bulldog 30:1 or Binks model 500 with pump Jupiter 8D 35:1 ratio. Use a .021" tip with 2,000 psi. pressure. Teflon packings are recommended for best performance.

**ROLLER/SPRAY:** Spray application is recommended for best results. However, brush or roller application is acceptable. Caution should be taken to apply uniform coat.

**DRYING TIME:**

To Touch : 30 mins to 1 hr. @ 90°F (32°C) and longer at lower temperature.  
To Recoat : 2-3 hrs. @ 90°F (32°C)  
To Handle : 3-4 hrs. @ 90°F (32°C)  
Final Cure : 6 hrs. minimum weathering limit before floating.

**CLEAN-UP:** Use Ultracote Thinner #2 or xylol.

**STORAGE CONDITION:**

Temperature : 40-110°F (4-43°C)  
Humidity : 0 - 100%

**NOTE:** Store in a covered area. Do not store on direct sunlight. Material tends to explode.

**PACKAGING:** Gallon (3.785 liters)  
Pail (4 & 5 Gallons)

**SAFETY INFORMATION:** This product (and any recommended thinners) contains solvents and/or other chemical ingredients. Adequate health and safety precautions should be observed during storage, handling, application and curing. Keep away from sparks, heat and open flame and use necessary safety equipment such as air mask, non-sparking tools and ladders, etc. When working in tanks, rooms and other enclosed spaces, adequate ventilation must be provided. Keep out of reach of children.

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Technical and application information herein is provided for the purpose of establishing a general profile of the coating and proper coating application procedures. Test performance results were obtained in a controlled environment and Ultracote Company makes no claim that these tests or any other tests, accurately represent all environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection and use of the coating.

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