The Environmental Paint Company

ECOMINDER®
ANTIFOULING PAINT
TECHNICAL DATA SHEET (2012-01)

- ***PERFECT FOR ALL RECREATIONAL BOATS***
- ***SAFE AND EASY TO APPLY***
  - ***Compatible Over Popular Antifoulants***
  - ***No Heavy Solvent Smell***
  - ***Fast Drying***
  - ***Clean Up With Soap & Water!***
- ***ADVANCED ANTIFOULING TECHNOLOGY***
  - ***Innovative Formula Replaces Harsh Solvents***
  - ***Features The Most Advanced Slime Control***
  - ***Proprietary Photo-Active Technology***
  - ***Hybrid Self-Polishing System Incorporates Benefits of Both Hard & Ablative Type Paints***
- ***UNLIMITED DRY TO LAUNCH TIME***

GENERAL DESCRIPTION

ECOMINDER® is an advanced water-based antifouling paint recommended for recreational boats in both fresh and low fouling salt water environments. ECOMINDER® is the greenest and safest antifouling paint approved for use by the U.S. EPA. It is free of harmful volatile organic solvents and toxicants that persist in our environment. ECOMINDER® is formulated with bio-polymers derived from renewable resources, even the container is recycled. ECOMINDER® is copper-free and will not promote corrosion on metal surfaces. ECOMINDER® is safe to haul and launch out of the water and its unlimited coat-to-launch time allows for painting in the fall. ECOMINDER® is designed to control slime, algae, bacteria and features ePaint's patented photoactive technology to deter the settling of hard shell type organisms.

APPLICATION INFORMATION

ECOMINDER® may be applied by traditional painting techniques. Follow instructions set forth in this technical data sheet for detailed information for your particular application.

SURFACE PREPARATION

Proper surface preparation is an important step for a coating system that performs properly and lasts. Follow recommendations set forth in the following sections carefully. Inadequate surface preparation will result in poor coating performance.

MAINTENANCE

No antifouling paint can be effective under all conditions of exposure. Pollution and natural occurrences can adversely affect antifouling paint. Extreme air and water temperatures, silt, dirt, oil, poor water clarity, and low oxygen levels can harm antifouling paint. Therefore, ePaint suggests that the bottom of the boat be checked regularly to make sure it is clean and that no growth is occurring. Lightly scrub the bottom with a soft brush or cloth to remove anything from the antifouling paint surface. Scrubbing is particularly important to boats that sit idle for extended periods of time in high fouling bodies of water. Antifouling paints are generally more effective when the boat is used periodically.

PHYSICAL DATA

COLORS:

001 YELLOW	
101 BLUE	
151 DARK BLUE	
201 GREEN	
301 BLACK	
401 BRIGHT WHITE	
501 BRIGHT RED	
701 LIGHT GRAY	
901 SAFETY ORANGE	

PACKAGING: Quart, gallon, 5 gallon pail
SHELF LIFE: 1 Year from DOM
VEHICLE TYPE: Bio-polymers, water
CURING MECHANISM: Evaporation and oxidative cure
SOLIDS BY VOLUME: 49% ± 2%
COVERAGE: 350 - 400 ft^2/gal
VOC: 0 – 5 g/L (color dependant)
FLASH POINT: NA
STORAGE: Between 35ºF and 80ºF
ACTIVE INGREDIENT: Zinc Omadine® 4.8%

APPLICATION DATA

METHOD: Traditional methods; brush, roller (1/4" nap or foam) or spray (HVLP)
NUMBER OF COATS: Two full coats with additional coat(s) at waterline and leading edges (e.g. bow, keel, rudder, chines)
WET FILM THICKNESS/COAT: 3-5 mils
DRY FILM THICKNESS/COAT: 2-3 mils
APPLICATION TEMP: 50ºF to 90ºF
MIN DRY TIME* (Hours):

Temp	To Recoat	To Launch
90ºF	4	16
70ºF	8	24
50ºF	16	36

*The above dry times are minimums. Re-coat within 7 days to avoid additional surface prep (i.e. sanding)

MAX DRY TO LAUNCH TIME: Not critical
THINNER: Bottled water, 10% max by vol.

COMPANION PRODUCTS

- EP-PRIME 1000 Multi-Purpose Epoxy Primer

- EP-STRIP Water-based, Non-caustic Paint Remover

- Wet Film Thickness Gage

ePaint Company ● 25 Research Rd, East Falmouth, MA 02536 ● 800-258-5998 ● www.epaint.com

Information in this technical data sheet is not intended to be exhaustive and is subject to modification from time to time in the light of experience and our policy of continuous product development. Please visit www.epaint.com for the most recent product information.

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APPLICATION DETAILS

Mix ECOMINDER® thoroughly before use to ensure materials are uniformly dispersed throughout the can as settling of solids can occur. All surfaces to be painted shall be clean prior to sanding and painting. Visit www.epaint.com or contact an ePaint Technical Representative for answers to questions regarding application and compatibility.

PREVIOUSLY PAINTED SURFACES: ECOMINDER® is compatible over most popular traditional antifouling paints and epoxy-type barrier coatings that are in good condition. ECOMINDER® should not be applied over sloughing or soft type paints. All loose, cracking, peeling, and flaking paint should be removed. Take care to remove any top-side boat finishing wax residue that may have dripped onto hull and thoroughly clean surface. Mechanically abrade existing paint with 80 grit sandpaper and wipe away all dust and debris. Following instructions set forth in the Application Data section on the opposite page, apply two or three full coats with additional coats around the waterline and leading edges. For ultimate adhesion, remove existing bottom paint down to gel-coat or existing barrier coat and apply a tie-coat of ePaint EP-Prime 1000 epoxy primer following instructions in next section.

FIBERGLASS: ECOMINDER® may be applied directly to abraded gel coat. Optionally, ePaint EP-Prime 1000 epoxy primer may be used for improved adhesion and to reduce the potential for water migration on boats that are in service year round. Take care to thoroughly clean and remove all mold release agents and boat finishing wax residue prior to sanding; mechanically abrade gel coat with 80 grit sandpaper to create a dull matte finish and wipe away all debris.

GOOD: Apply ECOMINDER® directly to abraded gel coat. Following instructions set forth in the Application Data section on the opposite page apply two full coats with additional coats around the waterline and leading edges.

BETTER: Apply one tie-coat of EP-Prime 1000 epoxy primer to abraded gel coat for improved adhesion. The first coat of ECOMINDER® shall be applied when the final coat primer is *tack-free but soft-to-finger pressure*. If window is missed apply another coat of EP-Prime 1000. The next day to within one week, following information set forth in the Application Data section on the opposite page apply a total of two full coats of ECOMINDER® with additional coats around the waterline and leading edges.

BEST: Fiberglass boat bottoms are potentially susceptible to water migration and can potentially form osmotic blisters within the gelcoat and into the laminate. To render the bottom as water impermeable as possible, apply three full coats of ePaint EP-Prime 1000 multi-purpose epoxy primer to abraded gel coat. The first coat of ECOMINDER® shall be applied when the last coat epoxy primer is *tack-free but soft-to-finger pressure*. If window is missed apply another coat of EP-Prime 1000. The next day to within one week, following information set forth in the Application Data section on the opposite page apply a total of two full coats of ECOMINDER® with additional coats around the waterline and leading edges.

ALUMINUM & STEEL: ECOMINDER® is safe for use on aluminum and steel as it will not promote galvanic corrosion. ECOMINDER® may be applied directly to small areas of abraded aluminum and on slow moving boats (e.g. pontoon, dinghy) without a primer; all other aluminum boats and all steel boats must be primed with ePaint EP-Prime 1000 corrosion inhibiting epoxy primer.

All direct to metal coatings provide maximum performance over blasted surfaces. Metal surfaces should be prepared to no less than a near-white metal cleanliness in accordance with NACE 2/SSPC-SP-5/SA 2.5 specifications. Abrasive blast or mechanically abrade with 80 grit aluminum oxide sandpaper to achieve a 1.5-2.5 mil (38-63 micron) depth profile in a sharp, jagged pattern as opposed to a peen pattern from shot-blasting; *immediately* prime with EP-Prime 1000 corrosion inhibiting epoxy primer. Apply final coat of EP-Prime 1000 next day to within one week. The first coat of ECOMINDER® shall be applied when the final coat of epoxy primer is *tack-free but soft-to-finger pressure*. If window is missed apply another coat of EP-Prime 1000. The next day to within one week, following information set forth in the Application Data section on the opposite page apply a total of two full coats of ECOMINDER® with additional coats around the waterline and leading edges.

WOOD: Clean and abrade surface with 80 grit sandpaper and wipe away all dust and debris. Reduce first coat of ECOMINDER® 10% by volume with bottled water and allow to dry overnight. The next day to within one week, following information set forth in the Application Data section on the previous page apply a total of two full coats of ECOMINDER® with additional coats around the waterline and leading edges. Not compatible over silicone-based fillers.

TIPS: Due to the photo-active nature of ECOMINDER® PLUS additional coats around the waterline in addition to stripe coating high wear areas and leading edges such as the bow, keel, rudder, chines and sterngear is recommended to extend coating service life. Carefully follow film thickness requirements and dry to re-coat times at given temperatures set forth in this application guide.

SAFETY: See individual label for health and safety data. MSDS may be requested by contacting ePaint Company.

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