The Environmental Paint Company

ZO
ANTIFOULING PAINT
TECHNICAL DATA SHEET (2012-01)

- **The Original Copper-free Antifouling Paint!**
- **"Recommended" and "24 Month Finalist" ratings by *Practical Sailor Magazine*, October 2009 Issue**
- **Better antifouling performance and protection than other copper-free paints**
- **Available in Bright Colors & True White - does not discolor like competitors "ePaint-like" products**
- **Hybrid finish incorporates benefits of both hard and ablative type paints - no old paint build up**
- **Unlimited coat to launch time**
- **Perfect for any boat, out-drives, and running gear**

GENERAL DESCRIPTION

ePaint ZO is the original copper-free antifouling paint and is designed for all boat types including sailboats, powerboats, and commercial workboats. ZO is available in many colors including a bright white that stays true and does not discolor like the competitor products do. ePaint ZO is easy to apply and is compatible over most popular bottom paints. Like all ePaint's, ZO is copper-free and will not promote corrosion on aluminum hulls or metal parts. Rather than following the archaic method used to leach toxicants into our waters, ZO prevents bio-fouling combining a patented photoactive process and actives that do not persist.

APPLICATION INFORMATION
ZO 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 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 cloth or soft brush 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 general more effective when the boat is used periodically.

PHYSICAL DATA
COLORS:

101 BLUE	
201 GREEN	
301 BLACK	
401 WHITE*	
501 RED (BRIGHT)	
701 GRAY*	

*Most photoactive, best for high-fouling & tropical waters

PACKAGING: Quart, gallon, 5 gallon pail
SHELF LIFE: 2 Years from DOM
VEHICLE TYPE: Solvent
CURING MECHANISM: Evaporation
SOLIDS BY VOLUME: 55% ± 2%
THEORETICAL COVERAGE: 310 ft^2/gal
VOC: <400 g/L
FLASH POINT: 82ºF (28ºC) Setaflash
STORAGE: Between 38ºF and 80ºF
ACTIVE INGREDIENT: Zinc Omadine®,4.8%

APPLICATION DATA
METHOD: Brush, roller (3/8" nap), or spray
NUMBER OF COATS: 2 or 3 full coats with additional coats at waterline and leading edges (e.g. bow, keel, rudder, chines)
DRY FILM THICKNESS: 3-4 mils per coat
WET FILM THICKNESS: 5-7 mils per coat
APPLICATION TEMP: 45ºF to 90ºF
MIN DRY TIMES (HOURS)*:

Temp	To Re-coat	To Launch
90ºF	3	14
70ºF	4	16
55ºF	8	24

*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: EP-13, 20% max by vol
CLEAN-UP: EP-13, Xylene, or MEK

COMPANION PRODUCTS

- EP-PRIME 1000, multi-purpose use epoxy primer

- EP-STRIP, water-based, non-caustic paint/varnish remover
- eProp & EP-21 Aerosol, for props & running gear

- EP-13 and EP-15 thinners, for reduction and clean up

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.

APPLICATION DETAILS

Mix ePaint ZO 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: ZO is compatible over most popular antifouling paints and epoxy-type barrier coatings that are in good condition. All loose, cracking, peeling, and flaking paint should be removed. Thoroughly wash clean and then abrade existing paint with 80 grit sandpaper, wipe away dust and debris, and allow to air dry. 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 fiberglass or existing barrier coat and apply a tie-coat of ePaint EP-Prime 1000 epoxy following instructions in the following section.

FIBERGLASS: ZO may be applied directly to bare, abraded gel-coat. Optionally, ePaint EP-Prime 1000 multi-purpose 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 with 80 grit sandpaper to create a dull matte finish, wipe away all dust / debris.

GOOD: Apply ZO directly to bare, abraded gel-coat. 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.

BETTER: Apply one tie-coat of EP-Prime 1000 epoxy primer for improved adhesion. The first coat of ZO 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 or three full coats of ZO 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 epoxy primer. The first coat of ZO 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 or three full coats of ZO with additional coats around the waterline and leading edges.

ALUMINUM & STEEL: ePaint ZO is safe for use on aluminum and steel as it will not promote galvanic corrosion. Aluminum and steel surfaces 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 ZO 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 or three full coats of ZO 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 ZO 20% by volume with ePaint EP-13 thinner 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 or three full coats of ZO with additional coats around the waterline and leading edges. Not compatible over silicone-based fillers.

TIPS: Due to the photo-active nature of ZO, lighter colors offer better antifouling protection in high fouling areas (e.g. tropics and murky waters) and additional coats around the waterline are strongly recommended to extend coating service life. Stripe coating high wear areas and leading edges such as the water line, bow, keel, rudder, and stern gear is also recommended to extend coating service life. ZO viscosity will increase at cooler temperatures and over time; if necessary reduce with EP-13 exempt thinner to ease application.

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

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