ePaint

The Environmental Paint Company

ZO^{HP} ANTIFOULING PAINT

TECHNICAL DATA SHEET (2012-01)

- ***High Performance Antifouling***
- ***Rated "EXCELLENT" by Practical Sailor Magazine (March, 2010 issue)***
- ***Fluoro-Polymer Coating Technology for the FASTEST RACING FINISH!***
- ***ADVANCED ANTIFOULING TECHNOLOGY***
  - ***Features The Most Advanced Slime Control***
  - ***Proprietary Photo-Active Technology***
  - ***Hybrid Self-Polishing System Incorporates Benefits of Both Hard & Ablative Type Paints***
  - ***Perfect Choice for Boats in Tropical Waters***
- ***Compatible Over Most Popular Antifouling Paints***
- ***Unlimited Dry To Launch Time***

GENERAL DESCRIPTION

ePaint ZO^{HP} is a high-performance antifouling paint recommended for all boats in fresh and salt water. ZO^{HP} offers excellent antifouling protection in even the harshest tropical environments. ZO^{HP} is the only antifouling paint formulated with space-age fluoro-polymers to provide the lowest friction surface possible when wet; as a result ZO^{HP} is a great paint choice for serious racing sailors. Like all ePaint's, ZO^{HP} is copper-free and will not cause corrosion on aluminum hulls or metal parts. Rather than following the archaic method used to leach toxicants into our waters, ZO^{HP} prevents bio-fouling combining a patented photoactive process and actives that do not persist.

APPLICATION INFORMATION

ZO^{HP} may be applied by traditional painting techniques. For a racing finish spray application is preferred method or alternately roll and wet sand final coat smooth. Follow instructions set forth in this technical sheet for detailed information for your 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*:

401 Bright White*	
701 Light Gray	
901 Safety Orange	

*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: Air drying
SOLIDS BY VOLUME: 55% ± 2%
THEORETICAL COVERAGE: 275 ft^2/gal
VOC: <400 g/L
FLASH POINT: 82°F (28°C) Setaflash
STORAGE: Between 38°F and 80°F
ACTIVE INGREDIENT: Zinc Omadine®, 4.8%

APPLICATION DATA

METHOD: Traditional methods; brush, roller (3/8" nap) or spray (HVLP); for a racing finish spray application is recommended or alternatively roll and wet sand smooth when hard**.
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: 45°F to 90°F
DRY TIME (HOURS)*:

Temp	To Recoat	To Launch
90°F	4	17
70°F	6	24
55°F	9	36

*The above dry times are minimums. Re-coat ZO^{HP} within 7 days to avoid additional surface prep (sanding). If applied at cooler temps, ZO^{HP} will take several days to harden before wet sanding can be undertaken.

DRY TO LAUNCH TIME: 60 days
THINNER: ePaint EP-13, 20% max by vol
CLEAN-UP: ePaint EP-13, Xylene or MEK

COMPANION PRODUCTS

- EP-PRIME 1000 multi-purpose epoxy primer

- EP-STRIP, water-based, non-caustic paint/varnish remover

- EP-13 and EP-15 thinners

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APPLICATION DETAILS

Mix paint thoroughly before use to ensure materials are uniformly dispersed throughout the can. 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^{HP} is compatible over most popular antifouling paints and barrier coats 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 previous page, apply two or three full coats of ZO^{HP} with additional two or three coats around the waterline and leading edges. For ultimate adhesion, remove existing bottom paint down to existing barrier coat or fiberglass and apply a tie-coat of EP-Prime 1000 epoxy following instructions in the following section.

FIBERGLASS: ZO^{HP} may be applied directly to bare fiberglass. 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 with 80 grit sandpaper to create a dull matte finish and wipe away all dust and debris.

GOOD: Apply ZO^{HP} directly to bare fiberglass. 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^{HP} 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 total of two or three full coats of ZO^{HP} 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. The first coat of ZO^{HP} 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^{HP} with additional coats around the waterline and leading edges.

ALUMINUM & STEEL: ePaint ZO^{HP} 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^{HP} 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^{HP} 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^{HP} 20% by volume with ePaint EP-13 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 total of two or three full coats of ZO^{HP} with additional coats around the waterline and leading edges. Not compatible over silicone-based fillers.

CONSIDERATIONS: Due to the photo-active nature of ePaints, additional coats around the waterline are strongly recommended to extend coating service life. Stripe coating high wear areas and leading edges such as the bow, keel, rudder, chines and sterngear is also recommended to extend coating service life. ZO-HP is a viscous paint and for a racing finish, spray application is the preferred method; alternatively roll on paint and once hard wet sand the final coat smooth. If wet sanding and polishing is desired, ZO-HP will take several days at warm temps to harden sufficiently to a point where the paint will not gum up paper, especially if applied at cooler temperatures. If ZO^{HP} needs to be thinned (application by spray or warm climates), reduce with only ePaint EP-13, one quart per gallon max. Boat should be launched within 60 days to avoid potential chalking due to UV light exposure.

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

NOTES: 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 and updates.