

TECHNICAL DATA SHEET

Document Code: TDS ZO HP (2008-02)
www.epaint.com 508-540-4412



ePaint ZO HP Antifouling Paint EPA Registration #64684-4

Overview:

ePaint ZO HP is a high performance antifouling coating designed for recreational, racing sail and power boats. ZO HP incorporates advanced fluoro-polymer technology that results in a hard, mar-resistant, lightweight surface. ZO-HP can easily be burnished to achieve a sleek, smooth racing finish. Like all ePaints, ZO HP is copper-free and will not promote galvanic corrosion on metal surfaces. ZO HP prevents bio-fouling using ePaint's patented photoactive technology and Zinc Omadine® biocide that does not persist in the environment. ePaints are safer for you, your boat and our environment.

Recommended Uses:

For marine and fresh water immersion service; for racing, recreational sail and power boats; racers who want to obtain a hard, fast, sleek racing finish; for drag reduction and fuel savings

Climate:

Only apply ZO HP if the substrate and ambient air temperatures are above 55°F (12.8°C). Do not paint when substrate is wet from rain or dew, or when surfaces are less than 5°F (3°C) above the dew point or when relative humidity is greater than 85%.

Surface Preparation:

Adhesion of any coating depends on proper surface preparation. Substrate shall be free of oil, dust, dirt, grease, and salt/chloride contamination before abrading. Cleanliness is the most important step to achieve a coating system that will perform and last. After abrading the surface, remove all dust and debris.

Compatible Existing Painted Surfaces:

ZO HP is compatible over most existing antifouling paints and epoxy primers that are in good condition and intact. ZO HP is not compatible over non-stick release coatings, soft abrasives, or flaking paint. Thoroughly abrade paint with 80 grit paper to achieve a roughened surface. Visit www.epaint.com FAQ page for a detailed compatibility chart or contact an ePaint representative.

Fiberglass:

De-wax surface if necessary and thoroughly abrade gel-coat with 80 grit paper to create a roughened surface profile. Although not required, it is strongly recommended to first apply one coat of ePaint EP-Prime 2000 epoxy barrier coating (see TDS P2000).

Aluminum and Steel Surfaces:

Abrasive blast or mechanically abrade with 80 grit aluminum oxide paper to achieve a 1.5-2.5 mil (38-63 micron) anchor profile and immediately apply a full coat of ePaint EP-Prime 1000 corrosion inhibiting epoxy primer (see TDS P1000).

Mixing:

Power-shake ePaint ZO HP before applying. If power shaker is not available, mix thoroughly until a homogenous blend results.

Thinning:

Use ePaint EP-13 thinner for viscosity reduction and to obtain a smoother finish. For best results thin ZO HP 10-15% by volume for roll application, up to 25% by volume for spray application. Do not thin beyond your state's compliant limit. Considerations: thinning will increase dry-to-recoat time, dilute active materials, and reduces DFT; if thinning, allow for additional dry time between coats and apply an extra coat of ZO HP at waterline.

Application:

ePaint ZO HP may be applied by traditional painting techniques. For roller application, use a high quality short nap roller, such as a 3/8" or 1/4". For brush application use a high quality bristle brush. Spray application will provide the smoothest possible finish.

Over EP-Prime 1000 Corrosion Inhibiting Epoxy Primer:

Apply a thin coat of ZO HP at 1-3 wet mils over the last coat of EP-Prime 1000 when the primer is tacky but there is no primer transfer with finger pressure. Allow system to dry overnight before applying consecutive coats.

Over EP-Prime 2000 Barrier Epoxy Coating:

Apply a thin coat of ZO HP at 1-3 wet mils directly over the last pass of EP-Prime 2000 when the primer becomes soft but tack-free and allow to dry overnight before applying consecutive coats.

Film Thickness:

ZO HP should be applied at 5-7 wet mils to obtain 3-4 dry mils per coat unless otherwise instructed (i.e. first coat of ZO HP over primer). The use of a wet film thickness gauge is recommended.

Number of Coats:

Apply two full coats and an additional three coats of ePaint ZO HP at the waterline area (waterline down approximately 1.5 ft). Extra coats at the waterline area are strongly recommended.

Dry Time:

Dry times lengthen at lower temperatures and shorten at higher temperatures. See "Dry-To-Recoat Time" on opposite page. Minimum dry-to-launch time is 24 hours at 70°F (21°C). Coating should be fully cured before placing into service.

Repairs:

For small bare areas, such as under blocks, thoroughly abrade with 80 grit paper to roughen surface, feather out painted surfaces two inches around bare area, and remove dust. Prime and paint prepared areas following product instructions.

Burnishing:

When ZO-HP becomes hard it can be readily wet sanded to achieve a sleek, mirror-like finish. Resulting hardness is related to solvent evaporation and temperature. Warmer temperatures will harden film faster. Wet sanding techniques vary amongst users but ePaint suggests starting with 600 grit paper.

Cleanup:

Immediately cleanup spray equipment and brushes with ePaint EP-13 thinner, xylene or MEK. Dispose of any unused materials according to Federal, state and local laws.

Maintenance:

Although maintenance scrubbing is normally not required, it is recommended to have the boat checked occasionally, more so for boats that sit idle for extended periods of time, to make sure it is clean and that no growth is occurring. If growth is detected, lightly scrub the bottom with a soft brush to remove any fouling.

Considerations:

- ePaint's are photoactive and wear fastest where sunlight is most intense, the waterline area, and why waterline coats are required.
- ePaint's are designed to be slightly translucent for photoactive effects to take place; as a result, up to 3 full coats of ZO-HP may be required to hide underlying paint of a sharp contrasting color.
- Service life is directly proportional to resulting dry film thickness.
- 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 ruin antifouling paint. *Visible sunlight and oxygenated water are required for ePaint antifouling and release coatings to work effectively.*

Safety:

See individual product label for safety and health data. MSDS is available for download online at www.epaint.com or a facsimile may be requested by calling ePaint at 508-540-4412.

DISCLAIMER: The performance of any marine paint or coating depends on many factors outside the control of ePaint Company, including surface preparation, proper application, and environmental conditions. Therefore, ePaint Company cannot guarantee this product's suitability for your particular purpose or application. Any recommendations of ePaint Company contained herein, covering use, utilization, chemical, or physical properties and other qualities of the products sold are believed to be reliable; however, ePaint Company makes no warranty or representation with respect thereto. IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND/OR MERCHANTABILITY ARE EXCEEDED, ePaint Company SHALL NOT, UNDER ANY CIRCUMSTANCES, BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. By use or application of any ePaint Company product, the buyer agrees that the sole exclusive remedy, if any, is limited to the refund of the purchase price or replacement of the product at ePaint Company's option.

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Features	Recommended Uses
<ul style="list-style-type: none">• High performance antifouling• Sleek, light-weight racing finish• Compatible over most existing hard bottom systems, safe for all rigid hulls• Advanced fluoro-polymer technology• Contains no copper or tin compounds• Available in bright white!• Resists maintenance scrubbing• Frequent hauling and launching should not affect coating performance• No maximum coat-to-launch time	<ul style="list-style-type: none">• Sail and power boats• Aluminum, fiberglass and wood• For the serious racer who wants a faster bottom• For drag reduction and fuel savings• Marine and fresh water service

Specification Data

Coating Type:	Photoactive ablative matrix	Dry-to-Recoat Time:
Packaging:	Single component material, available in 5 gallon, 1 gallon, and 1 quart containers	Minimum: 24 hours at 55°F (12.8°C), 50% R.H. 8 hours at 70°F (21.1°C), 50% R.H. 4 hours at 90°F (32.2°C), 50% R.H. Maximum: Not critical
Colors:	ePaint Number	Recommended Film Thickness per Coat:
White	ZO-401-HP	5-7 wet mils to obtain 3-4 dry mils
Gray	ZO-701-HP	Recommended Number of Coats:
Thinner:	EP-13 Thinner	2 full coats with additional 3 coats around the waterline (waterline down ~1.5 ft)
Application:	Traditional painting techniques	Theoretical Spreading Rate:
Density (AVG):	15.7 lbs/gallon	882 ft ² /gal at 1 mil dry film thickness 293 ft ² /gal at 3 dry (5 wet) mil film thickness 220 ft ² /gal at 4 dry (7 wet) mil film thickness
Flash Point:	82°F (28°C) Setaflash	Dry-to-Launch Time:
Solids By Volume:	55% ± 2%	Minimum: 24 hours at 70°F (21°C), 50% R.H. Maximum: Not critical
VOC:	<400 grams/liter	
Shelf Life:	2 years from manufacture	

Safety: See individual product label for safety and health data. A Material Safety Data Sheet is available for download online at www.epaint.com or a facsimile may be requested by calling ePaint at 508-540-4412.

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