

TECHNICAL DATA SHEET

Document Code: TDS ZO (2008-03)
www.epaint.com 508-540-4412



ePaint ZO Antifouling Paint EPA Registration #64684-4

Overview:

ePaint ZO is an antifouling coating designed for general purpose boating usage. Like all ePaints, ePaint ZO is copper-free and will not promote galvanic corrosion on metal surfaces. ePaint ZO is compatible over most existing bottom paint systems. ePaint ZO prevents bio-fouling using ePaint's patented photo-active technology and includes the Zinc Omadine® organic 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; for power and sail boats as well as commercial vessels with average operating speeds of 0-30 knots; safe for all rigid surfaces including primed aluminum.

Climate:

For best results, apply ZO during favorable climate conditions at temperatures above 55°F. Do not apply if the substrate and ambient air temperature are below 40°F, when substrate is wet from rain or dew, 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 dust and debris.

Compatible Existing Painted Surfaces:

ZO is compatible over most existing antifouling paints and epoxy primers that are in good condition and intact. ZO 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 ZO. If power shaker is not available, mix thoroughly until a homogenous blend results.

Thinning:

Not generally required. If necessary for viscosity reduction, to slow solvent evaporation when applying at warm temperatures, or to obtain a smoother finish, use ePaint EP-13 thinner. Do not thin ZO more than 20% by volume or beyond your state's compliant limit. Considerations: thinning dilutes active materials and reduces DFT; allow for additional dry time between coats and apply an extra coat of ZO at the waterline.

Application:

ePaint ZO 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 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 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 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 three full coats and an additional two coats of ePaint ZO at the waterline (waterline down approximately 1.5 ft). Extra coats at the waterline area are strongly recommended because ePaints are photoactive ablatives and wear faster in areas exposed to intense sunlight.

Dry Time:

A coat of ePaint ZO applied at 5-7 wet mils is ready for recoat at 4 hours at 70°F (21°C). Consecutive coats should be applied within 7 days to avoid extra surface preparation. Minimum dry-to-launch time is 16 hours at 70°F (21°C). Dry times lengthen at lower temperatures and shorten at higher temperatures. 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.

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 and why additional waterline coats are recommended.
- Due to the photoactive nature of ePaints, lighter colors paints (white, gray) are recommended for high fouling bodies of water.
- ePaint's are designed to be slightly translucent for photoactive effects to take place; as a result, more than one coat of ZO may be required to hide underlying paint of a sharp contrasting color.
- Service life is affected by number of coats of paint applied and environmental conditions (i.e. water temps, sunlight intensity, etc.)
- 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 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">• Excellent antifouling properties• Contains no harmful copper or tin compounds• Compatible over most existing hard bottom systems & all rigid hull types• Features Zinc Omadine® biocide and ePaint's patented Photoactive ablative coating technology• Frequent hauling and launching will not affect performance• Available in white and bright colors!• Will not promote galvanic corrosion• No maximum coat-to-launch time	<ul style="list-style-type: none">• For recreational and commercial boats• Vessels with average operating speeds of 0-30 knots• Recommended for use on all rigid surfaces exposed to bio-fouling• For aluminum boats as an effective and safe alternative to copper-based products• Safe for outdrives and other metal surfaces• For 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: 8 hours at 50°F (10°C), 50% R.H. 4 hours at 70°F (21°C), 50% R.H. 3 hours at 90°F (32°C), 50% R.H. Maximum: Not critical
Colors:	ePaint Number	Recommended Film Thickness per Coat:
Blue	ZO-101	5-7 wet mils to obtain 3-4 dry mils
Green	ZO-201	Recommended Number of Coats:
Black	ZO-301	3 full coats with additional 2 coats around the waterline (waterline down ~2 ft)
White	ZO-401	Theoretical Spreading Rate:
Red	ZO-501	1050 ft ² /gal at 1 mil dry film thickness
Gray	ZO-701	350 ft ² /gal at 3 dry (5 wet) mil film thickness
Thinner:	EP-13 Thinner	262 ft ² /gal at 4 dry (7 wet) mil film thickness
Application:	Traditional painting techniques	Dry-to-Launch Time:
Density (AVG):	13.8 lbs/gallon	Minimum: 16 hours at 70°F (21°C), 50% R.H.
Flash Point:	82°F (28°C) Setaflash	Maximum: Not critical
Solids By Volume:	65% ± 2%	
VOC:	<450 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.

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.