

TECHNICAL DATA SHEET

Document Code: TDS EP2000 (2008-01)
www.epaint.com 508-540-4412



ePaint EP-2000 Antifouling Paint EPA Registration #64684-6

General Description:

EP-2000 is a high performance, extremely hard, mar-resistant water-based antifouling coating designed for racing sail and powerboats as well as boats that are trailered. EP-2000 can easily be burnished to achieve a sleek, smooth racing finish. Like all ePaints, EP-2000 is copper-free and will not promote galvanic corrosion on metal surfaces. EP-2000 prevents bio-fouling using ePaint's patented photoactive technology and 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 service; for racing sail and powerboats with high average operating speeds; racers who want to obtain a hard, fast racing finish; for drag reduction and fuel savings; boats frequently hauled and launched by trailer.

Not Recommended For:

Use over any other existing antifouling paint system; application below 65°F; boats stationary for extended periods of time.

EP-2000 is very application sensitive, read details below to make sure conditions are right for applying this system to your boat.

Climate:

Only apply EP-2000 if the substrate temperature and ambient air temperature are above 65°F (18°C) and holding and the relative humidity (RH) is less than 75%. Do not paint if temperatures are expected to dip below 65°F (18°C), when substrate is wet from rain or dew or when surfaces are less than 5°F (3°C) above the dew point. EP-2000 is a water-based coating and may be ruined if temperatures drop below 65°F (18°C) or relative humidity climbs above 75% during the drying process.

Surface Preparation:

Adhesion of any coating depends on proper surface preparation. Substrate shall be free of oil, dust, dirt, grease, stripper and salt/chloride contamination before blasting, abrading and painting.

Existing Antifouling Paint Surfaces: EP-2000 is not compatible over any other pre-existing antifouling paint system. Remove existing paint by sanding, blasting or using a paint remover such as EP-Strip (see TDS EP-Strip).

Existing EP-2000 Painted Surfaces: Power-wash existing EP-2000 surface using water to remove any bio-fouling, oil, grease, salt, chloride contamination, etc. Thoroughly abrade with 80 grit paper to achieve roughened surface. Remove dust and debris by rinsing with clean water only and allow to thoroughly air dry. Do not solvent wipe surface as it may change film chemistry and result in adhesion failure of consecutive coats.

Fiberglass, Gel-coat and Wood: De-wax surface if necessary, mechanically abrade with 80 grit aluminum oxide paper to create a matte finish and roughened surface, remove dust and debris by rinsing with clean water and allow to thoroughly air dry. Surface must be primed with EP-Prime 1000 or EP-Prime 2000 following primer application instructions (See TDS P1000 and TDS P2000).

Aluminum (new surfaces only): EP-2000 may be applied directly over new, smooth, non-blasted, non-abraded aluminum without a primer. Wash surface to remove any bio-fouling, oil, grease, salt, chloride contamination, etc. Welded areas and roughened aluminum must be prepared and primed with EP Prime 1000 as directed in the following *Aluminum & Steel Surfaces* section.

Aluminum & Steel Surfaces: 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 paper to achieve a 1.5-2.5 mil (38-63 micron) depth profile and be a sharp, jagged pattern as opposed to a "peen" pattern from shot-blasting. *Immediately* apply ePaint EP-Prime 1000.

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.

Mixing:

Stir EP-2000 thoroughly until homogenous. Do not power-shake.

Thinning:

Not generally required. If necessary for viscosity reduction, use mineral-free bottled water, not more than 10% by volume. Allow extra time for drying. Note: thinning dilutes active materials and reduces DFT; apply extra waterline coat if thinning.

Application:

EP-2000 is very application sensitive and ePaint recommends it be professionally applied. It is critical that EP-2000 be applied only over properly prepared surfaces; only under favorable climate conditions (+65°F, low RH); over primer system within the recommended recoat interval; coats are applied below 8 wet mils; consecutive coats are applied within the recommended dry-to-recoat interval. Contact an ePaint Technical Representative for answers to questions and concerns before painting.

EP-2000 may be applied by traditional painting techniques. For roller application, use a high quality short nap or foam roller. For spray application thoroughly flush spray equipment with clean water before and immediately after spraying (do not use solvent).

Over EP-Prime 1000 and EP-Prime 2000: The first coat of EP-2000 shall be applied when the last coat primer has cured hard (usually 17 hours at 70°F) but within 24 hours. If outside 24 hours surface must be abraded, see applicable primer Tech Data Sheet.

Film Thickness:

Apply at 6-8 wet mils to obtain 3-4 dry mils per coat. Thinner films with additional coats are recommended for novice painters. Do not exceed 8 wet mils or water entrapment will occur. The use of a wet film thickness gauge is strongly recommended.

Number of Coats:

3 full coats and additional 2 coats around waterline (~1.5') and leading edges are recommended for optimum performance.

Dry Time:

Failure to follow recommended dry-to-recoat times and applying coats too thick will ruin EP-2000. For information on recoating at a specific temperature see on opposite page. Apply consecutive coats within 7 days to avoid extra surface preparation (sanding). Min dry-to-launch time is 24 hours at 70°F, 50% RH; no max dry-to-launch time.

Repairs:

For unpainted areas, such as under blocks, mechanically abrade with 80 grit paper and feather out painted surface ~2" around bare area, remove debris, and prime and paint prepared areas.

Cleanup:

Immediately cleanup spray equipment and brushes with water. Do not use solvent for cleanup. 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, to make sure it is clean and that no growth is occurring. If fouling, lightly scrub bottom with a soft brush.

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 EP-2000 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.*

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Features	Recommended Uses
<ul style="list-style-type: none">• High performance antifouling• Easily burnished for sleek racing finish• Copper and tin free• Environmentally friendly, water-based system, very low VOC• Features ePaint's patented photoactive technology and the Zinc Omadine® organic booster biocide• Frequent hauling and launching should not affect coating performance• Available in bright white!• No maximum coat-to-launch time	<ul style="list-style-type: none">• For racing sail and power boats• For drag reduction and fuel savings• Marine and fresh water service• For the serious racer who wants a faster bottom• Safe for use on all rigid substrates including fiberglass, wood, aluminum and other metals• Boats that are frequently launched and hauled by trailer• Vessels with high average operating speeds

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:	Do not apply below 65°F (18°C) 16 hours at 65°F (18°C), 50% R.H. 8 hours at 70°F (21°C), 50% R.H. 7 hours at 90°F (32°C), 50% R.H.
		Maximum:	Within 7 days
Colors:	ePaint Number	Recommended Film Thickness per Coat:	
White	EP-401		6-8 wet mils max to obtain 3-4 dry mils
Gray	EP-701	Recommended Number of Coats:	3 full coats with additional 2 coats around the waterline area
Safety Orange	EP-901	Theoretical Spreading Rate:	
Signal Yellow	EP-001		705 ft ² /gal at 1 mil dry (2 mil wet) film thickness 235 ft ² /gal at 3 mil dry (6 mil wet) film thickness 176 ft ² /gal at 4 mil dry (8 mil wet) film thickness
Thinner:	Mineral-free bottled water	Dry-to-Launch Time:	
Application:	Traditional painting techniques	Minimum:	24 hours at 70°F (21°C), 50% R.H.
Density (AVG):	13.6 lbs/gallon	Maximum:	Not critical
Flash Point:	N/A		
Solids By Volume:	44% ± 2%		
VOC:	100 grams/liter		
Shelf Life:	1 year 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.