EP-21

Foul Release Coating

TECHNICAL DATA SHEET (2026-01)

The Environmental Paint Company

- **Pesticide-free foul release coating**
- **Recommended as a "$ BUDGET BUY" and rated "EXCELLENT" after 6 Months (3/2010 Issue) and "GOOD" after 12 Months (10/2009 Issue) by Practical Sailor Magazine**
- **Works using patented photo-chemistry and by dissolving like a bar of soap**
- **Perfect for small and slow boats needing a single season of protection**
- **Compatible over most popular antifouling paints**
- **Fast drying, apply multiple coats per day**
- **Unlimited coat to launch time**
- **Great choice for out-drives and running gear**

GENERAL DESCRIPTION

ePaint EP-21 is a biocide-free foul release coating designed for small and slow moving boats that require a short single season of protection. EP-21 works without the use of a pesticide by dissolving like a bar of soap to allow for easy removal of bio-fouling. Any bio-fouling that does occur may be readily removed by boat motion or gentle cleaning. EP-21 is easy to apply and is compatible over most popular bottom paints. Like all ePaint's, EP-21 is copper-free and will not promote corrosion on aluminum hulls or metal parts.

APPLICATION INFORMATION

EP-21 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

EP-21 is a foul release coating, it is not an antifouling paint; periodic maintenance scrubbing and/or boat movement may be required to keep hull clean. No bottom paint can be effective under all conditions of exposure. Pollution and natural occurrences can adversely affect bottom paint. Extreme air and water temperatures, silt, dirt, oil, poor water clarity, and low oxygen levels can harm bottom 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 soft brush or cloth to remove anything from the bottom paint surface. Scrubbing is particularly important to boats that sit idle for extended periods of time in high fouling bodies of water. Bottom paints are generally more effective when the boat is used periodically.

PHYSICAL DATA

COLORS*:

101 LIGHT BLUE	
301 DARK GRAY	
401 WHITE*	
701 LIGHT GRAY	

* Most photoactive, best for high-fouling 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: 400 ft^2/gal
VOC: <350 g/L
FLASH POINT: 100°F (38°C) Setaflash
STORAGE: Between 40°F and 104°F
ACTIVE INGREDIENT: None

APPLICATION DATA

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

Temps	To Re-coat	To Launch
90°F	3	14
70°F	4	16
55°F	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 or EP-15, 20% max by vol
CLEAN-UP: EP-13, EP-15, Xylene, or MEK

COMPANION PRODUCTS

- EP-PRIME 1000, multi-purpose epoxy primer for metal, fiberglass, and wood surfaces
- EP-21 Aerosol, for outboards, brackets, lower units, running gear

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.

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APPLICATION DETAILS

Mix ePaint EP-21 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: EP-21 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 three full coats with two additional coats around the waterline and leading edges.

FIBERGLASS: EP-21 may be applied 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, remove all dust and debris.

GOOD: Apply EP-21 directly to bare, abraded gel-coat. Following instructions set forth in the Application Data section on the opposite page apply three full coats with additional two 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 EP-21 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 opposite page apply total of three full coats of EP-21 with two additional coats around 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 EP-21 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 three full coats of EP-21 with additional two coats around the waterline and leading edges.

ALUMINUM & STEEL: ePaint EP-21 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 EP-21 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 three full coats of EP-21 with additional two 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 EP-21 20% by volume with ePaint EP-13 or EP-15 VOC exempt 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 three full coats of EP-21 with two additional coats around the waterline and leading edges. EP-21 is not compatible over silicone-based fillers.

TIPS: Stripe coating high wear areas and leading edges such as the bow, keel, rudder, chines and sterngear is recom-mended. EP-21 viscosity will increase at cooler temperatures and left in can over time; solvents will flash off quickly when applied at warm temperatures; if necessary reduce with EP-13 or EP-15 VOC exempt thinner to ease application.

CONSIDERATIONS: Due to the photo-active nature of EP-21, it is strongly recommended that at least three full coats and additional waterline coats are applied to extend coating service life. As EP-21 is a very soft ablative paint, do not paint over EP-21 with any other paint systems, remove coating first; EP-21 will readily power wash or sand off hull.

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

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