

# Ultima Eco

Technical Bulletin 1808 - 03/17

## Copper-Free, Multi-Season Ablative

- Uses The world's first copper-free antifouling paint to offer true multi-season performance
- Contains organic ECONEA™ biocide along with a powerful slime fighting agent
- Self-polishing ablative technology eliminates the need for sanding and paint build up Use on all substrates including aluminum
- Can be used on almost any previously painted surfaces



1108 Ivory (Gallons Only)



1208 Blue (Gallons Only)



1608 Red (Gallons Only)



1808 Black (Gallons and Pints)

Note: Color differences may occur between actual and color chips shown



## Technical Information



**Finish:** Eggshell

**Solids by Weight:** 80%

**Coverage:** 500 ft<sup>2</sup>/gal.

**VOC:** 320 grams/liter (as supplied)

**Biocide:** ECONEA™...6.0%

Zinc Pyrithione...4.80%

**Flash Point:** 105°F (SETA)

**Application Method:** Brush, roller, airless or conventional spray

**Maximum Roller Thickness:** 3/16"

**Number of Coats:** 1 minimum per season with additional coats for extended service

**Wet Film Thickness:** 2.6 mils

**Dry Film Thickness:** 1.5 mils

**Application Temp:** 50° F. Min. / 90°F. Max.

**Thinner:** 120 Brushing Thinner, 121 Spraying Thinner, or 120VOC Thinner

**Dry Time\*:** (hours)

	To Recoat	To Launch
90°F	2	2
70°F	3	4
50°F	6	8

\*The above dry times are minimums. Ultima Eco may be recoated after the minimum time shown. There is no maximum dry time before launching.

Ultima Eco combines the breakthrough, metal-free ECONEA™ biocide with a powerful slime-fighting agent for dual-biocide, multi-season protection. This copper-free formula can be safely used on all substrates, including aluminum. It provides excellent antifouling protection, with an ablative surface that makes it the perfect choice for both power and sailboats. Ultima Eco's surface wears away over time, eliminating paint film build up and the need for sanding. It can be used on almost all previously painted surfaces in good condition. Ultima Eco contains 50% more ECONEA™ biocide than the competition, providing true multi-season performance.

[www.pettitpaint.com](http://www.pettitpaint.com) - (800) 221-4466

## Application Systems and Tips

Ultima Eco is easily applied by brush, roller or spray. When rolling, use only a high-quality short nap (maximum 3/16" nap) roller cover. Apply using thin coats; over-application of this product will virtually assure inadequate coating performance. Mix paint thoroughly to ensure ingredients are evenly dispersed throughout the can. All surfaces must be clean, dry and properly prepared prior to painting.

### Previously Painted Surfaces:

Ultima Eco may be applied over most aged hard and abrasive antifouling coatings. Consult the Pettit Antifouling Compatibility Chart for specific recommendations. Old tin copolymers must be removed completely or sealed with Pettit 6627 Tie-Coat Primer before applying this product. The paint systems outlined below contain references to other products; please read and understand the label and/or Technical Bulletin for these products as well, to ensure that they are used properly.

If the previous coating is in good condition, thoroughly sand with 80-grit sandpaper then solvent clean with Pettit 120 or 120VOC Thinner to remove residue. Apply two thin finish coats of Ultima Eco. If the previous coating is soft or in poor condition, remove to the bare surface by sanding or using paint remover. Proceed with appropriate bare system as described below.

### Bare Fiberglass:

All bare fiberglass, regardless of age, should be thoroughly cleaned with Pettit 92 Bio-Blue Hull Surface Prep or de-waxed several times with Pettit D95 Dewaxer. Proceed with either Sanding Method or one of the Non-Sanding Methods below.

**Sanding Method** - After the surface has been de-waxed, sand thoroughly with 80-grit production paper to a dull, frosty finish and rewash the sanded surface with Pettit 120 or 120VOC Thinner to remove sanding residue. Then apply two thin coats of this product, following application instructions. Careful observation of application instructions will help ensure long-term adhesion of this and subsequent years' antifouling paint.

**Non-Sanding Method** - To eliminate the sanding method, two alternative methods are available:

1) Thoroughly clean, de-wax, and etch the surface with Pettit 92 Bio-Blue Hull Surface Prep using a medium Scotch-Brite® pad in a swirling motion or wash the fiberglass at least three times using Pettit D95 Dewaxer. Then apply one thin coat of Pettit 6998 Skip-Sand Primer. Use a 3/16" or less nap when applying by roller. Consult the primer label for complete application and antifouling top-coating instructions. Apply two thin coats of Ultima Eco.

The active ingredients in Ultima Eco can settle over time, especially if the paint has been on the shelf for several months. It is necessary to thoroughly mix the paint before using. If possible, shake the can of paint on a mechanical paint shaker. Before using, check the sides and bottom of the can to make sure all of the pigment has been mixed in. If mixing is going to be done with a wooden paddle or an electric drill mixer, pour off half of the liquid from the top of the can into another can and then properly mix in any settled pigment; then remix the two parts together thoroughly. Adhere to all application instructions, precautions, conditions, and limitations to obtain optimum performance. Refer to individual labels and tech sheets for detailed instructions when using associated products, etc. When spraying, do not thin Ultima Eco more than 5% (6 ounces per gallon) or inadequate paint film thickness will occur and premature erosion of the finish will be likely. Do not apply Ultima Eco in thick films or in more than two coats, as poor adhesion may result. When applying by roller, use a short nap (3/16" maximum) roller cover.

### Surface Preparation:

Coating performance, in general, is proportional to the degree of surface preparation. Follow all recommendations very carefully, avoiding any shortcuts. Inadequate preparation of surfaces will virtually assure inadequate coating performance. The surface to be painted should be dry, clean and free of any contaminants. It should be properly prepared by following the recommended systems below. When sanding old antifouling paint, always wear Personal Protective Equipment (PPE) to prevent the inhalation of sanding dust.

### Maintenance:

No antifouling paint can be effective under all conditions of exposure. Man-made pollution and natural occurrences can adversely affect antifouling paint performance. Extreme hot and cold water temperatures, silt, dirt, oil, brackish water and even electrolysis can ruin an antifouling paint. Therefore, we strongly suggest that the bottom of the boat be checked regularly to make sure it is clean and that no growth is occurring. The self-cleaning nature of the coating is most effective when the boat is used periodically. Boats and vessels should not be scrubbed or cleaned for the first six months in the water, and at intervals of not less than three months thereafter.

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## Application Information



### Barrier Coat:

Fiberglass bottoms potentially can form osmotic blisters within the gelcoat and into the laminate. To render the bottom as water impermeable as possible, prepare the fiberglass surface as mentioned above (sanding method) then apply two thin coats of Pettit Protect High Build Epoxy Primer (4700/4701 or 4100/4101), per label directions. Apply two thin coats of Ultima Eco. See Pettit Protect User Manual for complete detailed instructions.

### Blistered Fiberglass:

See Pettit Protect User Manual for complete detailed instructions.

### Bare Wood:

Bare wooden hulls should be sanded thoroughly with 80-grit sandpaper and wiped clean of sanding residue using Pettit 120 or 120VOC Thinner. A coat of Pettit 6627 Tie-Coat Primer thinned 25% with Pettit 97 Epoxy Thinner should be applied directly to the bare wood. Allow to dry four hours and then two thin coats of Ultima Eco.

Previously painted wood hulls should be thoroughly sanded. If priming is necessary on bare wood spots, apply a touch-up coat of Pettit 6627 Tie-Coat Primer thinned 25% with Pettit 97 Epoxy Thinner to these areas. Then apply two thin finish coats of Ultima Eco.

### Bare Steel and Cast Iron\*:

Remove loose rust and scale from the metal surface by sandblasting or wire brushing. Immediately clean the surface using a vacuum or fresh air blast. Apply two coats of Pettit 6980 Rustlok Steel Primer, allowing each to dry only one to two hours prior to over-coating. Follow by two coats of Pettit Protect High Build Epoxy Primer (4700/4701 or 4100/4101), per label directions. If fairing is required, apply Pettit 7050 EZ-Fair Epoxy Fairing Compound between the two coats of Pettit Protect High Build Epoxy Primer. Apply two thin finish coats of Ultima Eco. See Pettit Protect User Manual for complete detailed instructions.

### Stainless Steel, Bronze, Lead, and Non-Aluminum Alloys\*:

Abrade surface to bright metal; clean off residue using Pettit 120 or 120VOC Thinner. Apply one thin coat of Pettit 6455/044 Metal Primer; allow to dry two hours. Apply two coats of Pettit 6627 Tie-Coat Primer, per label directions. Let the second coat of Pettit 6627 Tie-Coat Primer dry at least four hours and apply two finish coats of Ultima Eco.

### Bare Aluminum:

**Basic Method** - If the surface to be painted is smooth aluminum, apply one thin coat of Pettit 6455/044 Metal Primer and allow to dry for two hours. Read and follow carefully the instructions for application and top-coating on the Pettit 6455/044 primer label. For fresh water applications, apply two thin finish coats of Ultima Eco. For added corrosion resistance in salt water applications - follow above directions and apply two coats of Pettit 6627 Tie-Coat Primer, per label directions, prior to applying the two thin finish coats of Ultima Eco.

**Best Method** - For maximum corrosion resistance, sandblast to clean, bright metal and remove blasting residue with clean, dry compressed air or a clean brush. Immediately apply two coats of Pettit 4400/4401 Alumina Protect Epoxy Primer, followed by two coats of Pettit Protect High Build Epoxy Primer (4700/4701 or 4100/4101), per label directions. Apply two thin finish coats of Ultima Eco.

\*These are simplified systems. Pettit offers Technical Bulletins containing detailed instructions for most application systems. Please consult your Pettit Representative or the Pettit Technical Department for more complex, professional systems. Always read the labels or Product Data Sheets for all products specified herein before using.