



# Pettit Technical Bulletin

## Green Antifouling Technologies

### ***Pettit Paint is committed to a cleaner environment.***

Pettit Marine Paint has led the way to provide boaters with dependable products that leave behind the smallest environmental footprint possible. We have been working for decades to develop new, environmentally friendly technologies. Our top-notch research and development lab has been among the first to deliver low VOC bottom and topside paints, 100% tin-free antifouling paints, and foul-release and biocide-free products.

Pettit is proud to be the only antifouling paint manufacturer to offer:

- Copper free antifouling paints that offer true multi-season performance
- Low density copper technology antifoulants
- Self-polishing, water-based ablative paints
- Clean Core Technology that reduces heavy metals released by as much as 90%
- Effective low-dose White Copper antifoulants

At Pettit, we have proven to the world that green antifouling paints can not only work as good as traditional products, they can work better. Please join us in celebrating a cleaner and greener future with some of Pettit's ground-breaking technologies:

#### ***Clean Core Technology***

Decades of research and product development have led to Pettit's new Clean Core Technology, an enhanced paint film that contains fewer heavy metals, and allows a more consistent release of biocides. The result is that products utilizing Clean Core Technology are more effective while releasing less heavy metals into the environment. By removing the heavy metals in the paint film, and replacing them with more environmentally friendly additives, Clean Core Technology can reduce the amount of heavy metals released into our waters by up to 90%. These new additives have been specially formulated to provide a more "fine-tuned" and consistent release of the biocides from the paint film. This results in a more effective bottom paint that requires lower biocide levels to deliver full antifouling protection. Extensive testing shows this new technology works equally well with both hard and ablative paint films. And, with less cadmium, copper, zinc, and other metals in the film, bottom paint colors are crisper and cleaner. Superior protection, brilliant colors, increased fuel efficiency, and a smaller environmental footprint...isn't it time you made the switch?

#### ***Low-Density Copper Technology***

Finally, a breakthrough in antifouling paint technology that reduces the amount of copper introduced into the environment while maintaining the superior performance of a conventional cuprous oxide antifoulant. Low-Density Copper Technology allows us to replace the core of traditional Cuprous Oxide with environmentally friendly silica, reducing the copper footprint by up to 40%. The result is a copper biocide surface that provides superior protection for your boat, with a core that is made from materials found naturally in the ocean. The lightweight silica core produces a lighter paint, which helps to reduce your fuel consumption. There simply is no copper antifouling that is cleaner or greener.



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### ***Econea***

Econea is, quite simply, the future of antifouling technology. This non-metal biocide offers unsurpassed protection at very low concentrations. In fact, tests show that antifoulants made with 5% Econea are as effective as those made with 50% copper. This means consistently superior protection for your boat, but it's also good news for the environment since Econea's breakdown products have an extremely low toxicity, and are biodegradable. Rounding out Econea's appeal to boating enthusiasts and environmentalists alike is its non-metal formulation, which allows for a wide variety of paint colors, including white, bright colors and light shades. Econea is non-corrosive to metals and is safe for use on aluminum and all other underwater metals. There is no better choice to protect both your boat and the environment.

### ***Water-Base Ablative***

Pettit's water-dispersed ablativ technology combines outstanding antifouling protection with ease of application. This exclusive formula uses water to replace the harsh, smelly solvents found in conventional bottom paints. The result is a product with such low VOC content that it far exceeds even the most stringent air pollution regulations. This unique low-odor formula also allows unlimited dry time to launch, and opens up a world of possibilities including painting in the fall or indoors. With our modern water-based ablativ technology, application is trouble-free, and clean-up requires only soap and water, because, at Pettit, we think being green should also be easy.

### ***White Copper***

Pettit's new-age white copper technology is one of the secrets to Vivid's incredible success. Clean white in color, this copper biocide is lightweight and extremely effective at combating even the toughest antifouling. So effective, it requires 50% less biocide content than the heavy, reddish brown copper used in conventional antifoulants. Mixed with bright color pigments, the clean white base produces the brightest antifouling colors plus the whitest white and the blackest black. White Copper is friendlier to the environment, yet as Vivid has proven to the world is just as effective as traditional bottom paints.