



Neptune

HRT

Technical Bulletin 1843 - 08/18



Water-Based Antifouling Paint

- Economical hybrid protection
- Smooth durable polishing finish
- Apply over most antifouling paints
- Simple soap and water clean up





Technical Information

Finish: Flat
Solids by Volume: 60%
Solids by Weight: 40%
Coverage: 500 ft²/gal.
VOC: 145 grams/liter (1.21 pounds/gallon)
Biocide: Cuprous Oxide...25.25%
Flash Point: > 200°F
Application Method: Brush, roller, airless or conventional spray
Maximum Roller Thickness: 3/16"
Number of Coats: 1 minimum per season with additional coat at waterline
Wet Film Thickness: 3.75 mils
Dry Film Thickness: 1.5 mils
Application Temp: 50° F. Min. / 90°F. Max.
Thinner: Water
Dry Time*: (hours)

	To Touch	To Recoat	To Launch
90°F	¼	1-1/2	6
70°F	½	3	10
50°F	1	6	16

* Above times are minimums - there is no maximum dry time before launching.

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

-  1243 Blue (Quart and Gallon)
-  1343 Green (Quart and Gallon)
-  1643 Red (Quart and Gallon)
-  1843 Black (Quart and Gallon)



Pettit Neptune HRT water-based antifouling uses the latest technology available to create a hybrid paint film strong enough to handle the tough marine environment. Hybrid Reactive Technology features high density biocide utilization to maximize effectiveness by using biocide more effectively along with film modifiers to reduce yearly build-up, maintain uniform color consistency, and lower weight while providing a smoother finish than traditional paints. Soap and water cleanup along with no strong solvent smell, yields a user-friendly application. Neptune HRT does not require sanding between coats saving time and money. With low VOC it's ideal for marinas under restrictions. Neptune HRT can be used over all previously painted surfaces.

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Application Systems and Tips

Neptune HRT 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. For the smoothest possible finish: Thin the paint approximately 5-10% with 140 Water-Based Brushing Thinner. If applying Neptune HRT and the finish is inconsistent, wet the surface to be painted thoroughly with clean fresh water. This will provide a truer color and smoother finish. The surface will quickly smooth itself once in the water.

Do not apply Neptune HRT on aluminum hulls or outdrives.

Previously Painted Surfaces: To paint old hard and abrasive antifouling, thoroughly wipe down the surface with 120 Brushing Thinner, paying particular attention to waterline areas, then sand painted surface with 80 grit sandpaper. Old tin or copper copolymers or Teflon based antifouling should be sanded thoroughly with 80 grit sandpaper to remove the chalky outer surface, wipe clean of sanding residue, and then may be over coated directly with 1 coat of Neptune HRT. Soft, sloughing antifouling should be removed before applying Neptune HRT.

Bare Fiberglass: All bare fiberglass, regardless of age, should be thoroughly cleaned with 92 Bio-Blue Hull Surface Prep or de-waxed several times with Pettit D-95 Dewaxer.

Sanding Method: Sand the hull thoroughly with 80-grit sandpaper to a dull, frosty finish and rewash the sanded surface with 120 Brushing Thinner to remove sanding residue. Then apply two thin coats of this Neptune HRT, following application instructions.

Careful observation of application instructions will help ensure long-term adhesion of this and subsequent years' antifouling paint.

Neptune HRT contains cuprous oxide. As a result, there is a tendency for settling to occur, 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 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 Neptune HRT more than 10% (12 ounces per gallon) or inadequate paint film thickness will occur and premature erosion of the finish will be likely.

Surface Preparation: Coating performance, in general, is proportional to the degree of surface preparation. Follow all recommendations very carefully, avoiding any shortcuts.

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. Lightly clean the bottom with a sponge or cloth to remove anything from the antifouling paint surface. Cleaning is particularly important with boats that are idle for extended periods of time.

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Non-Sanding Method:

1) Prep the surface with 92 Bio-Blue Hull Surface Prep or wash the fiberglass three times using Pettit D95 Dewaxer. Apply one thin coat of Pettit 6998W 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 or three thin coats of this product.

2) Thoroughly clean, de-wax the surface with 92 Bio-Blue Hull Surface Prep using a course Scotch-Brite pad. Thoroughly rinse all residue from surface and let dry. Then apply one coat of Pettit-Protect High Build Epoxy Primer 4700/4701. Consult the primer label for complete application and antifouling top coating instructions. Apply two or three thin coats of this product.

Barrier Coat: Fiberglass bottoms potentially can form osmotic blisters within the gelcoat and into the laminate. Prepare the fiberglass surface as mentioned above (sanding method) then apply two - three coats of Pettit-Protect 4700/4701 Gray High Build Epoxy Primer Pettit Protect 4100/4101 White High Build Epoxy Primer per label directions. Apply two thin coats of Neptune HRT. See Technical Bulletin TB-1000 for detailed instructions.

Blistered Fiberglass: See Pettit Technical Bulletin TB-1000 Gelcoat Blister Repair and Prevention Specification for detailed instructions.

Bare Wood: Bare wooden hulls should be sanded thoroughly with 80-grit sandpaper and wiped clean of sanding residue. A coat of 6627 Tie-Coat Primer thinned 25% with 97 Epoxy Thinner should be applied directly to the bare wood. Allow drying 4 hours and then applying two un-thinned coats of Neptune HRT per instructions. Existing, hard antifouling paint should be thoroughly sanded. If priming is necessary on bare wood spots, apply a touch-up coat of 6627 Tie-Coat Primer thinned 25% with 97 Epoxy Thinner to these areas. Then apply the subsequent coats of this product.

Steel Hulls: Clean surface to be prepped. Remove loose rust and scale from the metal surface, scrape, sandblast or wire brush to 2 - 3 mil profile. Blow off residue, then apply one - two coats of Pettit 6980 Rustlok Primer* followed by two coats of Pettit 4700/4701 High Build Epoxy Primer. Follow with Neptune HRT.

Underwater Metal Parts: Solvent clean, abrade to clean bright metal by sanding with 60-80 grit sandpaper, sandblasting or wire brushing. Apply 2 - 3 coats of Prop Coat Barnacle Barrier 1792 followed by 2 thin coats of Neptune HRT.

DO NOT USE THIS PRODUCT ON ALUMINUM HULLS AND OUTDRIVES.

*These are simplified systems for small areas. Please consult your Pettit representative or the Pettit Technical Department for more complex, professional systems. Always read the labels or tech sheets for all products specified herein before using.

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