



Horizons®

Affordable Multi-Season Ablative

TECHNICAL BULLETIN 114 2/12

- Excellent affordable ablative antifouling protection
- Uses high copper load and controlled biocide release for multi-season performance
- Can be hauled and re-launched without repainting
- Ablative technology reduces coating build-up and the need for sanding
- Can be painted up to 12 months before launching



Horizons is the tried and true ablative antifoulant that offers excellent multi-season performance at an affordable price. It performs well in all conditions, including severe fouling waters. A heavy load of copper provides dependable, multi-season performance. Horizons' ablative surface wears away with use, exposing fresh biocides while eliminating paint build up and the need for sanding. Can be hauled and re-launched without repainting making it an excellent choice for trailered boats. Horizons has long been the standard ablative antifouling for many boatyards because of its many attributes and favorable pricing.



1250 Blue



1350 Green



1650 Red



1850 Black

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

PHYSICAL DATA	APPLICATION DATA	ASSOCIATED PRODUCTS
VEHICLE TYPE: Synthetic Polymer/Rosin	METHOD: Brush, Roller, Airless or Conventional Spray.	120 Brushing Thinner
FINISH: Flat	NUMBER OF COATS: 2 or 3	121 Spray Thinner
COLORS:	DRY FILM THICKNESS PER COAT: 2 mils (3.2 wet mils)	92 Bio-Blue Hull Surface Prep
1250 Blue 1350 Green	APPLICATION TEMP: 50° F. Min. / 90° F. Max.	95 Fiberglass Dewaxer
1650 Red 1850 Black	DRY TIME* (HOURS):	6998 Skip-Sand Primer
COMPONENTS: 1	To Recoat To Launch	4100/4101 White Pettit-Protect High Build Epoxy Primer
CURING MECHANISM: Solvent Release	90°F 3 8	4700/4701 Gray Pettit-Protect High Build Epoxy Primer
SOLIDS (theoretical):	70°F 6 16	6455/044 Metal Primer
By weight...83 +/- 2%	50°F 12 48	6627 Tie-Coat Primer
By volume...62 +/- 3%	*The above dry times are minimums.	6980 Rustlok Steel Primer
COVERAGE: 500 sq. ft/gal.	Horizons may be recoated after the minimum time shown. There is no maximum dry time before launching.	7050 EZ-Fair Epoxy Fairing Compound
VOC: 330 g/l max. (as supplied)	THINNER:	
ACTIVE INGREDIENTS:	120 Brushing Thinner	
Cuprous Oxide...40.5%	121 Spray Thinner	
FLASH POINT: 110°F (SETA)		

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APPLICATION INFORMATION

Horizons is heavily loaded with cuprous oxide. As a result of this loading 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. Do not thin Horizons more than 10% (12 ounces per gallon) or inadequate paint film thickness will occur and premature erosion of the finish will be likely. Do not apply Horizons in thick films or in more than four coats as poor adhesion may result. When applying by roller use a short nap (3/16 inch maximum) roller cover.

Surface Preparation: Coating performance, in general, is proportional to the degree of surface preparation. Follow recommendations carefully, avoiding shortcuts. Inadequate preparation of surfaces will virtually assure inadequate coating performance.

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 scrub the bottom with a soft brush to remove anything from the antifouling paint surface. Scrubbing is particularly important with boats that are idle for extended periods of time. The self-cleaning nature of the coating is most effective when the boat is used periodically.

SYSTEMS

Mix paint thoroughly to ensure toxicants are evenly dispersed throughout the can. All surfaces must be clean, dry and properly prepared prior to painting. Do not apply Horizons on aluminum hulls or outdrives.

Previously Painted Surfaces: If the previous coating is in good condition, thoroughly sand with 80 grit paper then solvent clean with 120 Brushing Thinner to remove residue. Apply two finish coats of Horizons. If the previous coating is soft or in poor condition, remove to the bare surface by sanding or using a paint & varnish remover. Proceed with appropriate bare system as described below. Old tin copolymers must be removed before applying Horizons.

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. Sand 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 or three 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.

To eliminate the sanding operation, two methods are available:

1. Prep the surface with 92 Bio-Blue Hull Surface Prep or wash the fiberglass 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 or three thin coats of this product.
2. Thoroughly clean, de-wax and etch the surface with 92 Bio-Blue Hull Surface Prep using a course Scotch-Brite pad in a swirling motion. Thoroughly rinse all residue from surface and let dry. Then apply one coat of Pettit 4700/4701 High Build Epoxy Primer. 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. To render the bottom as water impermeable as possible, prepare the fiberglass surface as mentioned above (sanding method) then apply three coats of Pettit Protect 4700/4701 Gray High Build Epoxy Primer or three coats of Pettit Protect 4100/4101 White High Build Epoxy Primer per label directions. Apply two or three thin finish coats of this product.

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

Bare Wood: Sand entire surface with 80 grit sandpaper; wash clean with 120 Brushing Thinner. Apply a coat of Pettit 6627 Tie-Coat Primer thinned 10% to penetrate and seal the wood. Fill any open seams with Pettit Seam Compound and allow an overnight dry. Apply two or three finish coats of Horizons.

Bare Steel*: Sandblast or disc sand to a clean, bright finish and remove residue with clean, dry compressed air or a clean brush. Immediately apply two coats of Pettit 4700/4701 High Build Epoxy Primer. Read and follow carefully the instructions on the 4700/4701 Epoxy Primer label. If the surface to be painted will be prepared using hand tools such as wire wheels or sanders, clean-off residue and immediately apply one coat of Pettit 6980 Rustlok Steel Primer. Let dry 1-2 hours and follow with two coats of 4700/4701 High Build Epoxy Primer. Read and follow carefully the instructions for application and top coating on both primer labels. Apply two or three finish coats of Horizons.

Keels - Lead: Abrade surface to bright metal; clean off residue. Apply one thin coat of 6455/044 Metal Primer; allow to dry six hours. Apply one coat of 4700/4701 High Build Epoxy Primer then, if fairing is required, apply 7050 EZ-Fair Epoxy Fairing Compound. Follow with an additional coat of 4700/4701 High Build Epoxy Primer per label directions. Apply two or three finish coats of Horizons.

Keels - Steel or Cast Iron: Abrade surface to bright metal; clean off residue. Apply one coat of 6980 Rustlok Steel Primer, allowing to dry only 1-2 hours prior to over coating with one coat of 4700/4701 High Build Epoxy Primer. Then, if fairing is required, apply 7050 EZ-Fair Epoxy Fairing Compound followed by one additional coat of 4700/4701 High Build Epoxy Primer, finish with two or three coats of Horizons.

Underwater Gear - Stainless Steel and Bronze: Use the same system as for lead keels.

*This is a simplified system