



Pettit Protect & Vivid Epoxy Primer

High Build Epoxy Primers

TECHNICAL BULLETIN 431 10/13

- Reduces water absorption in fiberglass hulls and prevents osmotic blistering.
- High film build for maximum protection with fewer coats.
- Excellent water and chemical resistance.
- Exceptional protection for steel, aluminum, and other metals.
- High Performance System for Underwater Running Gear.



Pettit Protect High Build Epoxy Primer is a heavy duty, two component epoxy coating for use where maximum resistance to fresh or salt water is required. It reduces water absorption in fiberglass hulls, making it an excellent choice for the prevention and repair of osmotic blisters. Pettit Protect’s high-solids formula allows for quicker and easier application with fewer coats necessary for effective protection. Pettit Protect also provides dependable corrosion protection on steel, aluminum, and all other underwater metals. It is ideally suited for commercial and pleasure craft applications and has excellent durability. Pettit Protect white 4100/4101 offers all the benefits of gray Pettit Protect High Build Epoxy Primer in a white color that will not bleed through even the lightest colored bottom paints. Specifically designed for use below white and light colored Vivid bottom paints, its use reduces the number of finish coats needed to achieve full color. Pettit Protect has excellent durability in exterior exposures, although, like most epoxies, it will chalk if not top coated.



4700/4701 Light Gray



4100/4101 White

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

PHYSICAL DATA	APPLICATION DATA	ASSOCIATED PRODUCTS																
VEHICLE TYPE: Epoxy/Polyamide FINISH: Low Luster COLORS: 4700/4701 Light Gray 4100/4101 White COMPONENTS: 2 MIX RATIO (A/B): 3 to 1 (by volume) CURING MECHANISM: Chemical Cure SOLIDS (theoretical) By weight: 71 ± 2% By volume: 56 ± 2% COVERAGE: 225 sq. ft./gal. VOC: 337 Grams/liter (2.81 lbs./gal) - Part A Only 347 grams/liter (2.89 lbs./gal) - Part B only 340 grams/liter (2.83 lbs./gal) - Parts A and B FLASH POINT: 80°F	METHOD: Brush, Roller, Airless or Conventional Spray INDUCTION PERIOD: 15 minutes @ 70°F NUMBER OF COATS: 3 minimum DRY FILM THICKNESS PER COAT: 4 mils (7.1 wet mils) APPLICATION TEMP: (air & substrate) 50° F. Min. - 90° F. Max. POT LIFE: 2½ hrs. @ 90°F, 5 hrs. @ 70°F, 10 hrs. @ 50°F DRY TIME: <table border="1"> <thead> <tr> <th>Substrate Temp</th> <th>To Recoat</th> <th>To Bottom Paint</th> <th>To Launch*</th> </tr> </thead> <tbody> <tr> <td>90°F</td> <td>2hrs-14 days</td> <td>3-6 hrs</td> <td>48 hrs min</td> </tr> <tr> <td>70°F</td> <td>3hrs-14 days</td> <td>5-8 hrs</td> <td>72 hrs min</td> </tr> <tr> <td>50°F</td> <td>6hrs-14 days</td> <td>7-10 hrs</td> <td>120 hrs min</td> </tr> </tbody> </table> If these recommended intervals are exceeded, sand thoroughly with 80 grit sandpaper before recoating or applying bottom paint. THINNER: 97 Epoxy Thinner	Substrate Temp	To Recoat	To Bottom Paint	To Launch*	90°F	2hrs-14 days	3-6 hrs	48 hrs min	70°F	3hrs-14 days	5-8 hrs	72 hrs min	50°F	6hrs-14 days	7-10 hrs	120 hrs min	92 Bio-Blue Hull Surface Prep 95 Fiberglass Dewaxer 97 Epoxy Thinner 6455/044 Metal Primer 6980 Rustlok Primer A-788 Splash-Zone Epoxy Repair Compound 7050 EZ-Fair Epoxy Fairing Compound Pettit Antifouling Paints
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Pettit Protect High Build Epoxy Primer

Systems

Bare Fiberglass: All fiberglass surfaces, regardless of age, should be thoroughly cleaned and prepped using 92

Bio-Blue Hull Surface Prep or washed at least twice with Pettit D-95 Fiberglass Dewaxer. Change rags frequently to ensure complete removal of wax, mold release, or other contaminants. Sand the surface thoroughly with 60 grit sandpaper and rewash with 120 Thinner to remove sanding residue. When using Pettit Protect as an adhesive primer, apply one coat following the application and recoat instructions. When using Pettit Protect as a barrier coat system, apply at least three coats* following the application and recoat instructions. Finish with two coats of Pettit antifouling paint.

Blistered Fiberglass: Refer to Pettit Technical Bulletin TB1000 "Gelcoat Blister Repair and Prevention" for detailed instructions.

Bare Steel: Sandblast to SSPC-SP 6 Commercial blast, blow off residue with clean, compressed air, and immediately apply three coats* of Pettit Protect following application and recoat instructions. Alternatively, hand sand with 80 grit sandpaper or power hand tool clean, then remove residue with clean compressed air or by vacuuming. Immediately apply one coat of Pettit 6980 Rustlok Steel Primer and let dry to a tack free state (usually 30 minutes to 2 hours, dependent on temperature). Then apply three coats of Pettit Protect following application and recoat instructions. Do not let Rustlok Primer dry longer than 2 hours under any circumstances before applying Pettit Protect.

Bare Aluminum: Sandblast (using non-metallic media) or disc sand the aluminum to clean, bright metal. Wipe clean of residue and immediately apply one thin coat of Pettit 6455/044 Metal Primer. Let dry 8 hours minimum, 48 hours maximum, and apply three coats* Pettit Protect following application and recoat instructions.

Keels - Lead: Disc sand or otherwise abrade surface to bright metal; clean off residue. Apply one thin coat of 6455/044 Metal Primer and allow to dry eight hours. Apply one coat of Pettit Protect. Let dry to recoat. Then, if fairing is required, apply Pettit 7050 EZ-Fair Epoxy Fairing Compound. Sand smooth with 80 grit sandpaper and follow with two additional coats of Pettit Protect per label directions.

Keels - Steel or Cast Iron: Disc sand or otherwise abrade surface to bright metal and clean off residue. Apply one coat of 6980 Rustlok Steel Primer, allowing to dry only ½ - 2 hours prior to overcoating, no more, no less! Apply one coat of Pettit Protect. Let dry to recoat. Then, if fairing is required, apply Pettit 7050 EZ-Fair Epoxy Fairing Compound. Sand smooth and follow with two additional coats of Pettit Protect per label directions.

Previously Primed Surfaces: Pettit Protect may be applied over existing two part epoxy finishes, provided they are in sound condition. Brush-off sandblasting or very heavy sanding with 60 grit sandpaper is required to maintain maximum adhesion. Then apply three coats* of Pettit Protect per instructions. Remember, coating performance is only as good as the surface to which it's applied. All existing two package epoxy finishes in poor condition, as well as one package primers and bottom paints, should be removed completely and the appropriate bare system as described above should be followed before using Pettit Protect.

*Total dry film thickness is more important than the actual number of coats applied. On metal and fiberglass, if 12 mils total DFT is not achieved with three coats, additional coats are recommended until 12 mils total DFT is achieved.