

PETTIT PROTECT

- Reduces water absorption in fiberglass hulls and prevents osmotic blistering
- Excellent water and chemical resistance
- High film build for maximum protection with fewer coats
- Exceptional protection for steel, aluminium and other metals
- High performance system for underwater running gear



HIGH BUILD EPOXY PRIMER

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, aluminium, and all other underwater metals. It is ideally suited for commercial and pleasure craft applications and has excellent durability.

Pettit Protect white offers all the benefits of grey Pettit Protect High Build Epoxy Primer in a white colour that will not bleed through even the lightest coloured bottom paints. Specifically designed for use below white and light-coloured Vivid bottom paints, its use reduces the number of finish coats needed to achieve full colour. Pettit Protect has excellent durability in exterior exposures, although, like most epoxies, it will chalk if not topcoated.

TECHNICAL INFORMATION				
VEHICLE	Epoxy / Polyamide			
FINISH	Low Luster			
COMPONENTS	2			
MIX RATIO (A:B)	3:1 (by volume)			
CURING MECHANISM	Chemical cure			
POT LIFE	2½ hours at 32°C, 5 hours at 21°C, 10 hours at 10°C			
INDUCTION	15 minutes at 21°C			
SOLIDS BY WEIGHT	71% ± 2%			
SOLIDS BY VOLUME	56% ± 2%			
COVERAGE	5.5m ² /litre			
VOC	337 grams/litre – Part A only 347 grams/litre – Part B only 340 grams/litre – Parts A & B			
APPLICATION METHOD	Brush, Roller or Spray			
NUMBER OF COATS	2 Minimum, 3 coats recommended for best results			
WET FILM THICKNESS	180µm			
DRY FILM THICKNESS	100µm			
APPLICATION TEMP (AIR & SUBSTRATE)	10°C min / 32°C max			
THINNER	97 Epoxy Thinner			
DRY TIME	Temp	To recoat	To bottom paint	To launch
	32°C	2 hrs-60 days	3-6 hrs	12 hrs min
	21°C	3 hrs-60 days	5-8 hrs	24 hrs min
	10°C	6 hrs-60 days	7-10 hrs	120 hrs min
	Total dry film thickness is more important than the actual number of coats applied. On metal and fiberglass, if 200µm total DFT is not achieved with 2 or 3 coats, additional coats are recommended until 200µm to 300µm total DFT is achieved.			
PACKAGING	1 Gallon Container (3.8 litres)			
SHELF LIFE	24 Months from date of manufacture			

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. Surface must be clean, dry and free from oil, grease or wax contaminants to ensure adequate adhesion of Pettit Product.

MIXING: Stir or shake contents thoroughly to remix any settled material. Mix 3 parts Part A with 1 part Part B by volume and stir thoroughly. Mix only enough material which can be used well within 5 hours at 21°C. Higher temperatures will reduce pot life, while cooler temperatures will increase pot life. Let mixed primer stand for 15 minutes before use.



APPLICATION INFORMATION: Pettit Protect can be easily applied by brush, roller or spray. Use a high quality bristle brush or 10mm nap roller made for epoxy paints. Pettit Protect has a pot life of 5 hours at 21°C; only mix enough paint for application in that time frame. Thinning is generally not required, but in adverse weather conditions, the product may be thinned up to 10% with Pettit 97 Epoxy Thinner to ease application. Follow the recommended recoat and overcoat dry times carefully. If the maximum recoat or overcoat times are exceeded, sand with 80-grit sandpaper to ensure adhesion of subsequent coats of primer or paint. When sanding, always vacuum or use clean shop air and tack rags to remove sanding residue.

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 2 to 3 coats* of Pettit Protect per instructions. All existing two-package epoxy finishes in poor condition, as well as one-package primers and bottom paints, should be removed completely.

BARE FIBERGLASS: No Sand Priming System for New or Unpainted Fiberglass Hulls (non-barrier coat method): All bare fiberglass, regardless of age, should be thoroughly cleaned and de-waxed. Pettit Protect can be used as an effective one-coat no-sand priming system.

1. Thoroughly clean, de-wax, and etch the surface with Bio-Blue® Hull Surface Prep using a medium Scotch-Brite® pad. Thoroughly rinse all residue from the surface and let dry. Ensure entire surface has a dull, frosty finish.
2. Apply one coat of Pettit Protect following application and dry times on label. Wet film thickness (WFT) should be 150µm per coat, which yields 100µm dry film thickness (DFT).
3. Apply 2 coats of Pettit antifouling paint following application instructions and dry times on label. (Make sure the Pettit Protect is still thumbprint tacky for first coat of bottom paint.)

BARE FIBERGLASS: Preventative Maintenance of New or Non-blistered Hulls (barrier coat method)

1. Thoroughly clean and de-wax the surface with Bio-Blue® Hull Surface Prep using a medium Scotch-Brite® pad. Thoroughly rinse all residue from the surface and let dry.
2. Sand the gelcoat thoroughly with 80-grit production sandpaper. All surfaces should be a uniform dull, frosty finish. Inadequate sanding of the surface will result in eventual failure of paint adhesion.
3. Apply a minimum of 2 coats Pettit Protect following instructions carefully. WFT should be 180µm per coat, which yields 100µm DFT. Dry film thickness for 2 coat application will be 200µm, 3 coat application should be 300µm minimum DFT.

BLISTERED FIBERGLASS: Refer to Pettit Protect User Manual or 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 3 coats* 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 1 coat of Pettit Rustlok® Steel Primer and let dry to a tack-free state (usually 30 minutes to 2 hours, dependent on temperature). Then apply 3 coats of Pettit Protect following application and recoat instructions. Do not let Rustlok® Primer dry for longer than 2 hours under any circumstances before applying Pettit Protect.

STAY CONNECTED

SEARCH **PETTIT PAINT** ON SOCIAL MEDIA PLATFORMS TO STAY CONNECTED WITH US.



BARE ALUMINIUM: Sandblast (using non-metallic media) or disc sand the aluminium to clean, bright metal. Remove residue and immediately apply 2 coats of Aluma-Protect Epoxy Primer. Apply 2 coats* Pettit Protect following application and recoat instructions.

KEELS – LEAD: Disc sand or otherwise abrade surface to bright metal; ensure 75µm to 100µm anchor profile is achieved. Clean off residue. Apply 1 coat of Pettit Protect thinned 20%. Let dry to recoat. Then, if fairing is required, apply Pettit EZ-Fair Epoxy Fairing Compound. Sand smooth with 80-grit sandpaper and follow with 2 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 1 coat of Rustlok® Steel Primer, allowing to dry only ½ to 2 hours prior to overcoating, no more, no less! Apply 1 coat of Pettit Protect. Let dry to recoat. Then, if fairing is required, apply Pettit EZ-Fair Epoxy Fairing Compound. Sand smooth and follow with 2 additional coats of Pettit Protect per label directions.

SPRAY APPLICATION INFORMATION: Pettit Protect can be easily applied by spray. Mix Part A with Part B in the appropriate ratio. Allow to induct for 10 to 15 minutes. Add up to 10% Pettit Epoxy Thinner # 07.

PRESSURE POT SYSTEM POT SETUP: Pressure pot gauge should be set 15-25 PSI. A test stream should be performed with no air pressure to achieve 16-20 oz. product per minute or 2-3ft stream.

CONVENTIONAL GUN SETUP: Binks or equivalent
Gun Pressure: 40 o 55 PSI
Fluid Needle / Nozzle: 1.6 to 2.0mm

HVLP GUN SETUP: SataJet 1000B HVLP or equivalent
Gun Pressure: 25 to 32 PSI
Fluid Needle / Nozzle: 1.8 to 2.0mm
Not recommended to be sprayed by conventional gravity feed cup gun.

AIRLESS GUN SETUP: Binks or equivalent
40 – 1 Pump: 50 to 60 PSI pump gauge pressure
25 – 1 Pump: 70 to 80 PSI pump gauge pressure
Orifice Size: .015" to .024"
If using airless / air assisted equipment, introduce 20 to 40 PSI of air to allow for uniform pattern and particle size.

CLEAN-UP: Use recommended solvent in case of spillage of product and dispose of in accordance with local applicable regulations.

STORAGE: Store chemicals indoors, away from direct sunlight, sources of heat and egress pathways. Hazardous chemicals must be stored below eye level. Do not store chemicals on the floor, window ledges, or balconies. Keep containers closed unless you are dispensing a chemical or adding to the container. Label containers and be sure container is compatible with the chemicals. Keep out of reach of children.

*** Total dry film thickness is more important than the actual number of coats applied. On metal and fiberglass, if 200µm total DFT is not achieved with 2 or 3 coats, additional coats are recommended until 200µm to 300µm total DFT is achieved.**