

SELECTION & SPECIFICATION DATA

Generic Type	Tin-Free Ablative Matrix Antifouling
Description	<p>Sea~Barrier 3000 is a high performance, high copper loading, tin-free, ablative antifouling utilising an engineered binder matrix resulting in a controlled and effective release of biocide during operation over extended service periods.</p> <p>Sea~Barrier 3000 is the ideal antifouling coating for:</p> <ul style="list-style-type: none"> • New builds & maintenance docking • Barges & Tug-Boats • Ferries & Fishing Vessels • Charter Vessels & Yachts • Multi-season antifouling protection
Features	<ul style="list-style-type: none"> • High performance TBT-free (Tri-Butyl Tin-free) antifouling • Self polishing/ablative mechanism inhibits the attachment of fouling organisms • Excellent static exposure performance • Controls common types of fouling for periods up to 36 months (depending on sailing pattern, applied system and other factors) • Increased periods between dry dockings leading to reduction in operating costs • Case histories to 5 years protection
Colour	<p>Black, Red, & Blue.</p> <p>Note: Minor batch to batch variation in colour may occur.</p> <p>Blue may exhibit some in-can colour change over time - this does not effect performance. To avoid this, use one batch number only per coat.</p>
Film Build	<p>75-100 microns dry per coat</p> <p><i>Typically two spray applied coats (150 – 200 microns DFT total) are applied for services up to 26 months (depending on sailing frequency, cruising speed and other factors) - Refer to Limitations section.</i></p>
Solid(s) Content	52% by volume
Theoretical Coverage Rates	<p>6.9 m²/litre at 75 microns dry</p> <p>5.2 m²/litre at 100 microns dry</p> <p>Allow for loss in mixing and application.</p>
VOC Value(s)	414 g/l as supplied
Approvals	<p>NZ HSNO Act - Approval HSR000035.</p> <p>APVMA Approval Number: 64133/133691.</p> <p>Meets IMO 2003 Tin-Free Regulations; MEPC.102(48) – Independently tested and certified by PRA reference; 07/269/NP-C.</p> <p>Bureau Veritas IMO Type Test Approval Certificate No. 20529/C0 BV.</p> <p>Lloyds Register – Recognised TBT Free Certificate No. LR2204780AF</p>

Sea~Barrier 3000

PRODUCT DATA SHEET



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Limitations	<p>Not suitable for aluminium vessels or stern-drives.</p> <p>Important Information (Disclaimer)</p> <p>No antifouling paint can be effective under all conditions of exposure, and the performance of this antifouling product depends on many factors beyond the control of the manufacturer, including but not limited to, variables during application and curing, climatic and environmental conditions both global and local during exposure, and acts of nature.</p> <p>We cannot and do not warrant that this product will be suitable for your particular purpose or application and no liability whatsoever is accepted by us. Any information provided by us is provided as a guide only, based on our field experience and raft trials. It is provided without warranty, express or implied. It is your sole responsibility to determine the suitability of the antifouling product for the use contemplated.</p>
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SUBSTRATES & SURFACE PREPARATION

General	<p>All surfaces must be sound and free of oil, grease, dirt, loose and flaking paint, moisture and other foreign substances prior to application of Sea~Barrier 3000.</p> <p>Sea~Barrier 3000 is normally applied over Carboline or Altex Coatings epoxy primer/undercoat systems. Seek further advice from Technical Services Department.</p>
Previously Painted Surfaces	<p>Repainting: High pressure water clean (5,000 – 10,000 psi; 330 – 660 bar) to remove all marine growth, hydrolysed antifouling, salts, loose paint and any other foreign matter.</p> <p>The cleaned surface, once dry, should be free of any powdered antifouling residues and should be inspected for defects in the film. Repairs to the coating system should be completed before the application of any subsequent coat of antifouling.</p> <p>Avoid excessive build up of aged coatings as these will delaminate over time, compromising antifouling protection and creating drag on the hull.</p> <p>Do not apply any of the Sea~Barrier series antifouling onto aged epoxy primers or build coats. These surfaces MUST be re-primed with a suitable primer before the antifouling may be applied.</p>
Special Instruction	<p>Sea~Barrier 3000 is designed to be applied over Carboline or Altex Coatings epoxy primer/undercoat systems. It must be applied over the epoxy coatings before they have cured hard**.</p> <p>Apply Sea~Barrier 3000 when the epoxy is tack-free but still soft to finger pressure. If the epoxy has cured too hard, apply another thin coat of epoxy before applying Sea~Barrier 3000.</p> <p>Sea~Barrier 3000 may be applied over single pack primers such as Altex Multi~Bond Primer, and Chem~Bar 3500. Refer to relevant product data sheet for further information.</p> <p>Sea~Barrier 3000 can also be applied over a wide range of existing antifouling coatings, including most cuprous oxide containing, copolymer types. Existing antifouling must be secure and intact, and must be water blasted clean before applying Sea~Barrier 3000.</p> <p>Consult your Altex Coatings Representative for specific recommendations regarding compatibility with existing antifouling systems.</p> <p>** may be applied over Carboguard 504 up to 48 hours at 24°C after application</p>

MIXING & THINNING

Mixing	<p>This product contains a high level of cuprous oxide. As a result, there is a tendency for settling to occur. It is necessary to thoroughly power mix before using. Check the bottom and sides of the can to ensure all the pigment has been mixed in. Stir occasionally during use to re-distribute any settling that may occur during application.</p>
Thinning	<p>Thinning is not normally required, except possibly in hot windy conditions. If required use minimal amount of Altex Thinning Solvent #12 - additional coats may be required to achieve the correct film thickness.</p>

MIXING & THINNING

Pot Life | N/A - single component

APPLICATION EQUIPMENT GUIDELINES

Listed below are general equipment guidelines for the application of this product. Job site conditions may require modifications to these guidelines to achieve the desired results.

General	The preferred method of application for this product is by spray. Small areas may be brush or roller applied if conditions are suitable; however, additional coats may be required to attain the correct film thickness if the coating is applied by brush or roller.
Conventional Spray	Pressure pot equipped with dual regulators, 9.5 mm (3/8") I.D. minimum material hose, 1.4 - 2.2 mm (.055 - .086") I.D. fluid tip and appropriate air cap.
Airless Spray	<p>Pump Ratio 30:1 Material Hose 9.5 mm (3/8") I.D min Tip Size 0.019" – 0.023" (Note: The above is a guide. Other equipment to the above may be used.)</p> <p>Important: Whilst Sea~Barrier 3000 can be applied by spray, brush or roller, it is strongly recommended that heavy-duty airless spray equipment be used to ensure the specified film thickness per coat is applied. Film thickness control is critical to the performance of the coating, as service life is a direct function of film thickness.</p>

CURING SCHEDULE

Surface Temp.	Dry to Recoat	Cure for Service
10°C (50°F)	8 Hours	24 Hours
25°C (77°F)	6 Hours	8 Hours
30°C (86°F)	4 Hours	8 Hours

These times are based on a 100 micron dry film thickness and 50% relative humidity. Higher film thicknesses, insufficient ventilation, high humidity or cooler temperatures will require longer cure times. The above times are minimum cure times.
Maximum time to launch: Although the maximum time to launch is indefinite, prolonged atmospheric exposure may lead to oxidation and discolouration with possible loss of antifouling efficacy. Avoid dry-dockings in excess of 30 days where possible.

CLEANUP & SAFETY

Cleanup	Use Altex Thinning Solvent #12
Ventilation	It is very important for the safety of the applicator and the proper performance of the applied coating that good ventilation be provided to all portions of the work area. Ventilation should be provided throughout the cure period to ensure all of the solvents are removed from the coating.
Caution	For industrial use only: Read and follow all the caution statements on this Product Data Sheet, the product label and the Safety Data Sheet (SDS) for health and safety information prior to use. This product is flammable. Keep away from heat, sparks and open flame. Use with adequate ventilation. May cause eye and skin irritation. Do not breathe vapour or spray. Wear suitable protective clothing such as gloves and eye and face protection.

Sea~Barrier 3000

PRODUCT DATA SHEET



PACKAGING, HANDLING & STORAGE

Shelf Life | Minimum 12 months at 24°C

**Shipping Weight
(Approximate)** | 1.84 kg per litre
4 litre - 7.36 kg
10 litre - 18.4 kg

**Storage Temperature &
Humidity** | 0° - 40°C
0 - 90%

Flash Point (Setaflash) | 37°C

Storage | Store indoors under cool (10° - 24°C) dry conditions

Packaging | 4 litre & 10 litre

WARRANTY

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