

SELECTION & SPECIFICATION DATA

Generic Type	<p>Proprietary resin blend-aluminium safe anti-fouling Sea~Barrier® is the registered trademark of Altex Coatings Limited</p>
Description	<p>Sea~Barrier® Alloy 100 PLUS (New Zealand) Sea~Barrier® Alloy 100 AU (Australia) Sea~Barrier® Alloy 100 is designed for commercial use on aluminium vessels working in and off shore.</p> <p>Sea~Barrier® Alloy 100 is also recommended for use on aluminium components such as stern drives, jet-drives, outboard motors</p> <ul style="list-style-type: none"> • New builds & maintenance docking • Barges & Mussel Farm work boats • Ferries & Fishing Vessels • Charter Vessels & Yachts • Multi-season anti-fouling protection
Features	<p>Sea~Barrier® Alloy 100 Antifouling is:</p> <ul style="list-style-type: none"> • An advanced anti-fouling using a combination of time proven copper thiocyanate and selected booster biocides. • Slime resistant • Available in three distinctive colours • Excellent for aluminium vessels and stern-drives • Tin free • Economical - 2 coats at 50-75 microns/coat giving superior performance over most competitor aluminium-safe anti-foulings • Proven performance in NZ and South Pacific as well as other global waters* (see Disclaimer on Page 2) • Sea~Barrier® Alloy 100 has been optimised for spray application. Refer following page for spray equipment recommendations <p>Approvals NZ HSNO – Reg: HSR000951. Alloy antifouling. Meets IMO 2003 Tin-Free Regulations; MEPC.102 (48) Bureau Veritas IMO Type Test Approval Certificate No. 20529/C0 BV. MNDE/2015/7008 Lloyds Register Australia: APVMA Approval #66263/115537</p>
Colour	<p>Black, Red & Blue (Black Only in Australia)</p>
Film Build	<p>50 - 75 microns DFT per coat Recommended high performance system: apply 2 coats to a total between 100 - 150 microns DFT</p>
Solid(s) Content	<p>65% by volume</p>
Theoretical Coverage Rates	<p>13.0 sq. metres per litre at 50 microns DFT 8.6 sq. metres per litre at 75 microns DFT 77 - 115 microns WFT to obtain 50 - 75 microns DFT</p> <p><i>Typically two spray applied coats (100 – 150µm DFT total) are applied for 20 – 26 months performance (depending on sailing frequency, cruising speed and other factors).</i></p>
VOC Value(s)	<p>310 grams per litre as supplied</p>

Sea~Barrier® Alloy 100

PRODUCT DATA SHEET



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Limitations	<p>Important Information (Disclaimer) 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. 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>
Specific Gravity	1.7 kg per litre

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® Alloy 100. Sea~Barrier® Alloy 100 is designed to be applied over Altex Coatings epoxy bottom systems. It is also compatible with a wide range of anti-corrosive and anti-fouling coatings. Sea~Barrier® Alloy 100 must be applied over the epoxy bottom coatings before they have cured hard**. Apply Sea~Barrier® Alloy 100 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® Alloy 100.</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. 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. Avoid excessive build up of aged coatings as these will delaminate over time, compromising antifouling protection and creating drag on the hull. 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® Alloy 100 anti-Fouling is designed to be applied over Carboline or Altex Coatings epoxy bottom systems. It must be applied over the epoxy bottom coatings before they have cured hard**. Apply Sea~Barrier® Alloy 100 anti-Fouling 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® Alloy 100 anti-Fouling. Sea~Barrier® Alloy 100 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. Sea~Barrier® Alloy 100 can also be applied over a wide range of existing aluminium safe anti-fouling coatings. Existing anti-fouling must be secure and intact, and must be water blasted clean before applying Sea~Barrier® Alloy 100 anti-Fouling. Consult your Altex Coatings Representative for specific recommendations regarding compatibility with existing anti-fouling systems.</p> <p>** (may be applied over Carboguard 504 Blue/Grey up to 48 hours after application)</p>

MIXING & THINNING

Mixing	Before use, Sea~Barrier® Alloy 100 anti-Fouling must be thoroughly stirred, preferably with an air-powered mixer, to ensure a homogeneous condition without any settlement remaining on the bottom of the container.
Thinning	Sea~Barrier® Alloy 100 anti-fouling does not normally require any thinning, except possibly in hot windy conditions. Sea~Barrier® Alloy 100 anti-Fouling is thinned using Altex Thinning Solvent #10, additional coats may be required to attain the correct film thickness.
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 brushed or rolled if conditions are suitable; however care must be taken to ensure the correct film build is applied.
Air Spray	1.4mm to 1.8mm Fluid tip with appropriate air cap.
Airless Spray	<p>Pump Ratio 30:1 Material Hose 9.5 mm (3/8") I.D min Tip Size 0.015" – 0.021" (Note: The above is a guide. Other equipment to the above may be used.)</p> <p>Important: Whilst Sea~Barrier® Alloy 100 antifouling 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. Additional coats may be required to attain the correct film thickness if the coating is applied by brush or roller.</p>

CURING SCHEDULE

Curing Details	<p>Dry Times (75 µm DFT / 50% RH): Recoat Minimum: Minimum: 18 hrs @ 5°C, 12 hrs @ 15°C, 6 hrs @ 25°C Maximum: Not critical To Launch Minimum: 24 hrs @ 5°C, 18 hrs @ 15°C, 12 hrs @ 25°C Maximum: Indefinite** Premature recoating, or launching may compromise cure - ensure full hard cure to avoid solvent entrapment.</p> <p>**Prolonged atmospheric exposure may lead to oxidation and discolouration with possible consequent loss of anti-fouling efficacy. Avoid dry-dockings in excess of 30 days where possible.</p>
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CLEANUP & SAFETY

Cleanup	Use Altex Thinning Solvent #10
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Sea~Barrier® Alloy 100

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CLEANUP & SAFETY

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.

PACKAGING, HANDLING & STORAGE

Shelf Life	Minimum 12 months at 24°C
Storage Temperature & Humidity	0° - 40°C 0 - 90%
Flash Point (Setaflash)	37°C
Storage	Store indoors under cool (10° - 24°C) dry conditions
Packaging	NZ: 4 litre & 10 litre Aust: 10 Litre only

WARRANTY

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