

SELECTION & SPECIFICATION DATA

Generic Type	High performance, proprietary resin blend, tin-free antifouling
Description	<p>Sea~Barrier Alloy 100 PLUS is designed for commercial use on aluminium vessels working in and off shore. It 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 antifouling protection
Features	<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 antifouling • Proven performance in NZ and South Pacific as well as other global waters* (see Disclaimer under Limitations section) • Sea~Barrier Alloy 100 PLUS has been optimised for spray application. Refer following page for spray equipment recommendations
Colour	Black, Red, & Blue
Film Build	<p>Optimum: 50 - 75 microns dry per coat Recommended high performance system: Apply 2 coats to a total between 100 - 150 microns DFT</p> <p>Do NOT overbuild. Additional product, and film thicknesses above 75 microns dry per coat may compromise both cure and performance.</p>
Solid(s) Content	65% by volume
Theoretical Coverage Rates	<p>13.0 m²/litre at 50 microns 8.6 m²/litre at 75 microns</p> <p><i>Typically two spray applied coats (100 – 150 microns DFT total) are applied for services up to 24 months (depending on sailing frequency, cruising speed and other factors) - Refer to Limitations section.</i></p>
VOC Value(s)	310 grams per litre as supplied
Approvals	<p>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. APVMA Approval: #66263/115537</p>

Sea~Barrier Alloy 100 PLUS

PRODUCT DATA SHEET



SELECTION & SPECIFICATION DATA

Limitations	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.

SUBSTRATES & SURFACE PREPARATION

General	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 PLUS. Sea~Barrier Alloy 100 PLUS is normally applied over Carboline or Altex Coatings epoxy primer/undercoat systems. Seek further advice from Technical Services Department.
Previously Painted Surfaces	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 antifoulings onto aged epoxy primers or build coats. These surfaces MUST be re-primed with a suitable primer before the antifouling may be applied.
Special Instruction	Sea~Barrier Alloy 100 PLUS 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**. Apply Sea~Barrier Alloy 100 PLUS 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 PLUS. Sea~Barrier Alloy 100 PLUS 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 PLUS can also be applied over a wide range of existing aluminium-safe antifouling coatings. Existing antifouling must be secure and intact, and must be water blasted clean before applying Sea~Barrier Alloy 100 PLUS. Consult your Altex Coatings Representative for specific recommendations regarding compatibility with existing antifouling systems. ** may be applied over Carboguard 504 up to 72 hours at 24°C after application

MIXING & THINNING

Mixing	This product contains a high level of cuprous thiocyanate. As a result, settling may 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.
Thinning	Thinning is not normally required, except possibly in hot windy conditions. If required use minimal amount of Altex Thinning Solvent #10 - additional coats may be required to achieve the correct film thickness.

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 brushed or rolled if conditions are suitable; however care must be taken to ensure the correct film build is applied.
Conventional Spray	Pressure pot equipped with dual regulators, 9.5 mm (3/8") I.D. minimum material hose, 1.4 - 1.8 mm (.055 - .070") 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 0.015" – 0.021" (Note: The above is a guide. Other equipment to the above may be used.)</p> <p>Important: Whilst Sea~Barrier Alloy 100 PLUS 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 Minimum	Cure for Service
5°C (41°F)	18 Hours	24 Hours
15°C (59°F)	12 Hours	18 Hours
25°C (77°F)	6 Hours	12 Hours

These times are based on a 75 micron dry film thickness and 50% relative humidity. Insufficient ventilation, high humidity or cooler temperatures will require longer cure times. The above times are minimum cure times.

Premature recoating, or launching may compromise cure - ensure full hard cure to avoid solvent entrapment.

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 #10
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 Alloy 100 PLUS

PRODUCT DATA SHEET



PACKAGING, HANDLING & STORAGE

Packaging | 10 litre only

Shelf Life | Minimum 12 months at 24°C

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

Flash Point (Setaflash) | 37°C

Shipping Weight (Approximate) | 1.7 kg per litre
10 litre - 17 kg

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

WARRANTY

Manufactured and / or distributed in Australia & New Zealand by Altex Coatings under license to Carboline Company. To the best of our knowledge the technical data contained herein is true and accurate on the date of publication and is subject to change without prior notice. User must contact Altex Coatings to verify correctness before specifying or ordering. No guarantee of accuracy is given or implied. We guarantee our products to conform to Carboline quality control. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of products. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY ALTEX COATINGS OR CARBOLINE, EXPRESS OR IMPLIED, STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. All of the trademarks referenced above are the property of Carboline International Corporation unless otherwise indicated. Altex Terms and Conditions of Trade, available at www.altexcoatings.com, apply in respect of all coating products and materials supplied, including samples.