

SELECTION & SPECIFICATION DATA

Generic Type	<p>Patented Silyl Acrylate polymer based antifouling</p> <p>Sea~Barrier Altra® Antifouling is a new, patented Silyl Acrylate polymer based antifouling with outstanding new generation controlled hydrolysis technology.</p>
Description	<p>Sea~Barrier Altra® Antifouling is designed to protect hulls from marine growth through a self polishing hydrolysis action - the silyl acrylate, cuprous oxide and co-biocide combination provides exceptional multi season protection.</p>
Features	<p>Extensive testing and sea trials show Sea~Barrier Altra® to be providing exceptionally cost effective, long term protection for commercial & deep water use.</p> <p>Sea~Barrier Altra® is the ideal anti-fouling coating for:</p> <ul style="list-style-type: none"> • Work vessels of virtually any description • Vessels trading in deep sea or coastal waters • Fishing fleets • Tugs and barges • Container ships • Passenger & vehicle ferries <p>Other Benefits of Sea~Barrier Altra®:</p> <ul style="list-style-type: none"> • Suitable for both Maintenance Docking and New builds • Improved performance at lower builds • Latest generation controlled hydrolysis Silyl Acrylate Polymer technology • Micro fine, engineered cuprous oxide technology • Developed & tested over several years, and proven in the most severe marine conditions • Highly predictable & stable self polishing hydrolysis action maintains full-time antifouling activity, reducing friction and drag • Improved adhesion to primers, build coats and existing antifouling being repainted and fully compatible when applied over Sea~Barrier® 1000 and 3000 • Very good static exposure performance • Superior mechanical strength – avoids cracking & peeling • Controls common types of fouling for extended periods & provides an easy to maintain surface between dockings (film build dependant) <p>* (see Disclaimer on Page 2)</p> <p>Approvals IMO Type Test Approval Certificate No. 20529/CO BV Bureau Veritas Lloyds Register – Recognised TBT Free Cert No. MNDE/2019/9016.</p>
Colour	Black, Red & Blue
Film Build	<p>75 microns DFT per coat</p> <p>Recommended high performance system: apply 2 coats to a total of 150 microns DFT</p>
Solid(s) Content	55% by volume
Theoretical Coverage Rates	<p>7.3 sq. metres per litre at 75 microns DFT</p> <p>140 microns WFT to obtain 75 microns DFT</p> <p><i>Typically two spray applied coats (150 – 175µm DFT total) are applied for 24+ months performance (depending on sailing frequency, cruising speed and other factors).</i></p>
VOC Value(s)	381 grams per litre as supplied

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.
	Limitations of Use: <ul style="list-style-type: none">• Not suitable for aluminium vessels or stern drives

Specific Gravity | 1.75 kg per litre

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 any coatings Sea~Barrier Altra® Antifouling is designed to be applied over Altex Coatings epoxy bottom systems - either epoxy or aged antifouling. It may also be compatible with some other anti-corrosive and anti-fouling coatings. Consult your Altex Coatings Representative for specific recommendations regarding compatibility with existing anti-fouling systems.
	This coating must be applied over the epoxy bottom coatings before they have cured hard**. Apply Sea~Barrier Altra® Antifouling 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 Altra® Antifouling.
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.
	This coating must be applied over the epoxy bottom coatings before they have cured hard**. Apply Sea~Barrier Altra® Antifouling 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 Altra® Antifouling.
Special Instruction	Sea~Barrier Altra® Antifouling may also be applied over aged and suitably prepared Sea~Barrier® 1000 and 3000. The existing anti-fouling must be secure and intact, and must be water blasted clean before applying Sea~Barrier® Altra Antifouling. Refer to either the Product Data Sheet of the specific primers being used, or consult with your Altex Coatings Representative for further advice. **(may be applied over Carboguard 504 Blue/Grey up to 48 hours after application) Sea~Barrier Altra® may also be applied over Chem~Bar™ 3500. Refer to relevant product data sheet for further information.

MIXING & THINNING

Mixing	Before use, Sea~Barrier Altra® 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 Altra® anti-fouling does not normally require any thinning, except possibly in hot windy conditions. Sea~Barrier Altra® 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 2.2mm Fluid tip with appropriate air cap. 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.)
Airless Spray	Important: Whilst Sea~Barrier Altra® 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.

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>
-----------------------	---

CLEANUP & SAFETY

Cleanup	Use Altex Thinning Solvent #10
----------------	--------------------------------

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	10° - 30°C 0 - 90%
Flash Point (Setaflash)	27°C
Storage	Store indoors under cool dry conditions - avoid extremes of hot and cold
Packaging	NZ & Aus: 10 litre

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.