

SELECTION & SPECIFICATION DATA

Generic Type	Patented Silyl Acrylate Polymer Based Antifouling
Description	<p>Sea~Barrier Altra is a new, patented silyl acrylate polymer based antifouling designed to protect hulls from marine growth through an outstanding controlled self polishing hydrolysis action - the silyl acrylate, cuprous oxide and co-biocide combination provides exceptional multi-season protection. Extensive testing and sea trials show Sea~Barrier Altra to be providing exceptionally cost effective, long term protection for commercial & deep water use. Ideal for work vessels of virtually any description such as fishing fleets, tugs and barges, container ships, passenger and vehicle ferries, and vessels trading in deep sea or coastal waters.</p>
Features	<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 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 - *see Disclaimer under Limitations section)
Colour	Black, Red & Blue
Film Build	50-75 microns dry per coat
Solid(s) Content	55% by volume
Theoretical Coverage Rates	<p>11 m²/litre at 50 microns 7.3 m²/per litre at 75 microns</p> <p>Allow for loss in mixing and application</p>
VOC Value(s)	As Supplied : 381 g/l
Approvals	<ul style="list-style-type: none"> • Lloyds Register - Recognised TBT-Free Certificate No: LR25184044AF • NZ HSNO Act - Approval No. HSR101509 • Appendix to IMO MEPC.358(78) - Guidance to compliant antifouling systems: Certificate No. 73692/A0 BV (Bureau Veritas)
Limitations	<p>Not suitable for aluminium vessels or stern drives.</p> <p><u>Important Information (Disclaimer)</u></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.</p> <p>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>

Sea~Barrier Altra NZ

PRODUCT DATA SHEET



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 Altra.
Sea~Barrier Altra 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 antifouling 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 Altra 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 Altra 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.
Sea~Barrier Altra may be applied over Chem~Bar 3500. Refer to relevant product data sheet for further information.
Sea~Barrier Altra can also be applied over a wide range of existing antifouling coatings such as Sea~Barrier 3000. Existing antifouling must be secure and intact, and must be water blasted clean before applying Sea~Barrier Altra.
Consult your Altex Coatings Representative for specific recommendations regarding compatibility with existing antifouling systems.

** may be applied over Carboguard 504 up to 48 hours at 24°C after application

MIXING & THINNING

Mixing | 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.

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.

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.

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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 Altra 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>
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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.

IMPORTANT: Failure to adhere to recoat times and launch times will likely cause deformities in the film and impact the antifouling performance.

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.

PACKAGING, HANDLING & STORAGE

Packaging	10 litre only
Shelf Life	24 months at 24°C Shelf Life: (actual stated shelf life) when kept at recommended storage conditions and in original unopened containers. For products/components exceeding the stated shelf life, contact Technical Services for further advice.

Sea~Barrier Altra NZ

PRODUCT DATA SHEET



PACKAGING, HANDLING & STORAGE

Storage Temperature & Humidity | 10° - 30°C
0 - 90%

Flash Point (Setaflash) | 27°C

Shipping Weight (Approximate) | 1.75 kg per litre
10 litre - 17.5 kg

Storage | Store indoors under cool dry conditions - avoid extremes of hot and cold

WARRANTY

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