



Sea~Barrier® Altra

Anti-fouling

New Polymer Technology

Data Sheet

FEATURES

Advantages:

- 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 antifoulings 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)
 - Formulated using NZ-EPA green rated biocides only
- Sea~Barrier Altra provides the commercial ship operator with a predictable and consistent level of protection from marine growth.**
- A clean and smooth hull provides both greater speed and fuel economy, along with reduced maintenance costs between dockings.**

Approvals:

IMO Type Test Approval Certificate
No. 20529/BI Bureau Veritas
Lloyds Register – Recognised TBT
Free Cert No. MNDE/20166/7289.
HSNO Approval: HSR101040

RECOMMENDED USES

Sea~Barrier® Altra Antifouling is a new, patented Silyl Acrylate polymer based high performance antifouling.

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.

Extensive testing and sea trials show Sea~Barrier® Altra to be at the forefront of antifouling technology.

Sea~Barrier® Altra is the ideal anti-fouling coating for:

- Work vessels of virtually any description
- Vessels trading in deep sea or coastal waters
- Fishing fleets
- Tugs and barges
- Container ships
- Passenger & vehicle ferries
- Suitable for both Maintenance Docking and New builds
- Improved performance at lower builds

Note: The amount of product applied has a direct bearing on system life. One coat - per recommended spreading rate (see below) is designed to provide approx 12 months protection in average conditions. Typically two, or more coats are applied.

Limitations of Use:

- **Not suitable for aluminium vessels or stern drives**

SPECIFICATION DATA

Coating Type: Silyl Acrylate polymer

Colour: Red, Black and Blue

Packaging: 10 litre pail only

Flash Point: 27°C Setaflash

Mix Ratio: N/A – single component

Pot Life: N/A

Thinner: Thinning Solvent #10

(Do NOT thin unless absolutely necessary)

Clean Up: Thinning Solvent #10

Density: 1.75 kg per litre

VOC: 381g per litre

Storage &

Shelf Life: 12 months when stored under cool, dry conditions

Volume Solids: 55 ±2%

Theoretical Coverage Rate:

5.5 sq metres per litre at 100 microns dry

Recommended Film Thickness Per Coat:

180 microns wet to obtain 100 microns dry

Two to three coats recommended

Application: Spray (recommended), brush or roller

Dry Times (100 µm DFT / 25°C / 50% RH):

To Recoat Minimum - 9 hours, overnight is recommended
Maximum - Not critical

To Launch Minimum - 12 hours, overnight is recommended
Maximum - Not critical

SURFACE PREPARATION

All surfaces must be sound and free of salts, oil, grease, dirt, loose and flaking paint, moisture and other foreign substances prior to application of Sea-Barrier® Altra Antifouling.

Sea-Barrier® Altra Antifouling is designed to be applied over Altex Coatings epoxy bottom systems. 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.

Sea-Barrier® Altra Antifouling 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.

Sea-Barrier® Altra may also be applied over Chem-Bar™ 3500.

Refer to relevant product data sheet for further information.

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.

Repainting: High pressure water clean (5,000 – 10,000 psi/330 – 660 bar) to remove all marine growth, hydrolised 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.

Refer to either the Product Data Sheet of the specific primers being used, or consult with your Altex Coatings Representative for further advice.

DIRECTIONS FOR USE

Mixing:

Before use, Sea-Barrier® Altra must be thoroughly stirred, preferably with an air-powered mixer, to ensure a homogenous condition without any settlement remaining on the bottom of the container.

Thinning:

Sea-Barrier® Altra generally does not require any thinning, except possibly in hot windy conditions. Sea-Barrier® Altra is thinned using Altex Thinning Solvent #10, additional coats may be required to attain the correct film thickness.

Clean-up:

Altex Thinning Solvent #10.

Application:

Sea-Barrier® Altra can be applied by either conventional spray or airless spray equipment.

Suggested spray equipment:

Conventional Air Spray Guide

1.4mm to 2.2mm Fluid tip with appropriate air cap.

Airless Spray Guide

Pump Ratio	30:1
Material Hose	3/8" I.D. min
Tip Size	0.019 – 0.023

(Note: The above is a guide only. Other equipment to the above may be used.)

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. Additional coats may be required to attain the correct film thickness if the coating is applied by brush or roller.

PRECAUTIONS

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.

Sea-Barrier® Altra 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.

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It is the users' responsibility to ensure they have the latest product data sheet and Safety Data Sheet. Check the data sheet date with the listings at www.altexcoatings.com.