Sea~Barrier 3000 AU

PRODUCT DATA SHEET

SELECTION & SPECIFICATION DATA

Generic Type	Tin-Free Ablative Matrix Antifouling
Description	Sea~Barrier 3000 is a high performance, high copper loading, tin-free, ablative antifouling utilising an engineered binder matrix resulting in a controlled and effective release of biocide during operation over extended service periods. Sea~Barrier 3000 is the ideal antifouling coating for: • New builds & maintenance docking • Barges & Tug-Boats • Ferries & Fishing Vessels • Charter Vessels & Yachts • Multi-season antifouling protection
Features	• High performance TBT-free (Tri-Butyl Tin-free) antifouling • Self polishing/ablative mechanism inhibits the attachment of fouling organisms • Excellent static exposure performance • Increased periods between dry dockings leading to reduction in operating costs • Case histories to 5 years protection • Extended 2-3 day overcoating window when applied over Carboguard 504. Refer to Technical Services for further advice
Colour	Black, Red, & Blue. Note: Minor batch to batch variation in colour may occur. Blue may exhibit some in-can colour change over time; however, this does not affect performance. To avoid colour variation, use only one batch number per coat.
Film Build	75-100 microns dry per coat
Solid(s) Content	By Volume 52%
Theoretical Coverage Rates	6.9 m²/litre at 75 microns dry 5.2 m²/litre at 100 microns dry Allow for loss in mixing and application.
VOC Value(s)	**As Supplied** : 414 g/L
Approvals	APVMA Approval Number: 64133/133691 Lloyds Register - Recognised TBT-Free Certificate No: LR2541343AF Bureau Veritas IMO Type Test Approval Certificate No. 20529_C0 BV
Limitations	**Not suitable for aluminium vessels or stern-drives.** **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 3000. Sea~Barrier 3000 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 to 10,000 psi; 330 to 660 bar) to remove all marine growth, hydrolysed antifouling, salts, loose paint, and other contaminants. Once cleaned and dry, the surface should be free from any powdered antifouling residue and inspected for coating defects. Any repairs to the coating system should be completed prior to the application of subsequent antifouling coats. Avoid excessive build-up of aged coatings, as these may delaminate over time, reducing antifouling effectiveness and increasing hull drag. Do not apply any Sea~Barrier series antifoulings directly onto aged epoxy primers or build coats. These surfaces MUST be reprimed with a suitable primer before antifouling application.
Special Instruction	Sea~Barrier 3000 is designed for application over Carboline or Altex Coatings epoxy primer and undercoat systems. It must be applied over the epoxy coating before the epoxy has fully cured**. Apply Sea~Barrier 3000 when the epoxy is tack-free but still soft to the finger pressure. If the epoxy has cured too hard, apply a further thin coat of epoxy before applying Sea~Barrier 3000. Sea~Barrier 3000 may also be applied over single-pack primers such as Altex Multibond Primer/ Undercoat and Chem~Bar 3500. Refer to the relevant Product Data Sheet for further information. Sea~Barrier 3000 can be applied over a wide range of existing antifouling coatings, including most cuprous oxide-containing copolymer systems. Existing antifouling coatings must be sound, intact, and thoroughly water-blasted clean before application of Sea~Barrier 3000. Consult your Altex Coatings representative for specific recommendations regarding compatibility with existing antifouling systems. ** Sea~Barrier 3000 may be applied over Carboguard 504 for up to 72 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	Not normally required. Where necessary, use small amounts of Thinner #12 for spray. For application in warmer or windier conditions, and for all brush and roller applications, Thinner #130 is recommended.
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	Pump Ratio 30:1 Material Hose 9.5 mm (3/8”) I.D (minimum) Tip Size 0.019" – 0.023" (Note: The above is a guide. Other equipment to the above may be used.) **Important**: Whilst Sea~Barrier 3000 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.

APPLICATION CONDITIONS

Condition	Material	Surface	Ambient	Humidity
Minimum	10°C (50°F)	4°C (39°F)	4°C (39°F)	0%
Maximum	32°C (90°F)	43°C (109°F)	41°C (106°F)	95%

Industry standards are for substrate temperatures to be maintained at a minimum of 3°C above the measured dew point, prior to and during coating application.
Special thinning and application techniques may be required above or below normal application conditions.

CURING SCHEDULE

Surface Temp.	Cure for Service	Dry to Recoat
10°C (50°F)	24 Hours	8 Hours
25°C (77°F)	8 Hours	6 Hours
30°C (86°F)	8 Hours	4 Hours

These times are based on a 100 micron dry film thickness and 50% relative humidity. Higher film thicknesses, insufficient ventilation, high humidity or cooler temperatures will require longer cure times. The above times are minimum cure times.
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 #12 or #130
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	5 litre & 10 litre
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.
Storage Temperature & Humidity	0°- 40°C 0 - 90%
Flash Point (Setaflash)	37°C
Shipping Weight (Approximate)	1.84 kg per litre 5 litre - 9.2 kg 10 litre - 18.4 kg
Storage	Store indoors under cool (10°- 24°C) dry conditions

WARRANTY

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