



Sea~Barrier[®] Alloy 100 PLUS

Aluminium Safe Tin-Free Antifouling

Data Sheet

FEATURES

Sea~Barrier[®] Alloy 100 PLUS Antifouling is:

- New Formula! Supersedes standard Alloy 100 with higher volume solids and new biocide technologies.
- Slime resistant
- Available in four distinctive clean colours
- Excellent for aluminium vessels and stern-drives
- Tin free
- Economical - 2 coats at 75 microns each giving superior performance over most competitor aluminium-safe anti-foulings
- Proven performance in NZ and South Pacific waters.

Sea~Barrier[®] Alloy 100 PLUS is an advanced anti-fouling using a combination of time proven copper thiocyanate and selected booster biocides.

Approvals

NZ HSNO – Reg: HSR000951. Alloy antifouling.
Meets IMO 2003 Tin-Free Regulations; MEPC.102 (48)
Certified by PRA reference 07/269/NP-F.

Bureau Veritas IMO Type Test Approval Certificate No. 20529/BO BV

RECOMMENDED USES

Sea~Barrier[®] Alloy 100 PLUS Antifouling is designed for commercial use on aluminium vessels working in and off shore.

Sea~Barrier[®] Alloy 100 PLUS is also recommended for use on aluminium components such as stern drives, jet-drives, outboard motors etc on vessels otherwise anti-fouled with more conventional copper based anti-foulings such as Sea~Barrier[®] 1000, 3000 and 4000.

Sea~Barrier[®] Alloy 100 PLUS is also recommended as an 'isolation coat' and anti-foulant on, and extending approximately 150mm around, immersed skin fittings, intakes, sea-chests, exhausts, stern-drive mountings etc. as a component in the proprietary Altex ZECA System for installing copper anti-foulings on aluminium vessels (refer to customised ZECA specifications for detailed information.)

Limitations of Use:

- Sea~Barrier[®] Alloy 100 PLUS has been extensively tested in New Zealand and international waters with excellent results when compared with competitor products. However conditions such as water salinity, dissolved nutrients, temperature, tidal flow, service speeds etc all impact, positively or negatively, on ultimate performance. Factors over which Altex Coatings has no control
- Sea~Barrier[®] Alloy 100 PLUS has been optimised for spray application. Refer following page for spray equipment recommendations

SPECIFICATION DATA

Coating Type:	Proprietary resin blend aluminium safe anti-fouling
Colour:	NZ: Red, Blue, White & Black
Packaging:	NZ: 10 litre pails
Mix Ratio:	N/A - Single package
Pot Life:	N/A
Gloss:	Flat
Flash Point:	43°C - Setflash
Thinner:	Spray – Altex Thinner #10 Brush / Roll Altex Thinner #25
Shelf Life:	12 months when stored under cool, dry conditions

Density:	1.7 kg per litre																
VOC:	310 gm per litre																
Volume Solids:	65% ± 2%																
Theoretical Coverage Rate:	8.66 square metres per litre at 75 microns dry 13.0 square metres per litre at 50 microns dry																
Recommended Film Thickness Per Coat:	80-115 microns wet to obtain 50-75 microns dry Do NOT overbuild this coating. Film build control is critical to the performance of the product.																
Application:	Conventional or airless spray preferred.																
Dry Times (50µm DFT/50% RH):																	
	<table border="1"> <thead> <tr> <th></th> <th>5°C</th> <th>15°C</th> <th>25°C</th> </tr> </thead> <tbody> <tr> <td>Min Recoat (Spray)</td> <td>18 Hrs</td> <td>12 Hrs</td> <td>6 Hrs</td> </tr> <tr> <td>Min Recoat (Roll)</td> <td>24 Hrs</td> <td>18 Hrs</td> <td>10 Hrs</td> </tr> <tr> <td>Min to Launch</td> <td>24 Hrs</td> <td>18 Hrs</td> <td>12 Hrs</td> </tr> </tbody> </table>		5°C	15°C	25°C	Min Recoat (Spray)	18 Hrs	12 Hrs	6 Hrs	Min Recoat (Roll)	24 Hrs	18 Hrs	10 Hrs	Min to Launch	24 Hrs	18 Hrs	12 Hrs
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	MAXIMUM LAUNCH TIME: 60 days																

SURFACE PREPARATION

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 designed to be applied over Altex Coatings epoxy bottom systems. It is also compatible with a wide range of anti-corrosive and anti-fouling coatings.

Sea-Barrier® Alloy 100 PLUS must be applied over the epoxy bottom 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 can also be applied over a wide range of existing anti-fouling coatings, including most cuprous oxide containing, copolymer types. Existing anti-fouling must be water blasted clean before applying Sea-Barrier® Alloy 100 PLUS.

Consult your Altex Coatings Representative for specific recommendations regarding compatibility with existing anti-fouling systems. Existing anti-fouling must be secure and intact. Refer to Repainting below for surface preparation directions.

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.

DIRECTIONS FOR USE

Mixing:

Before use, Sea-Barrier® Alloy 100 PLUS 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® Alloy 100 PLUS does not normally require any thinning, except possibly in hot windy conditions. For spray application Sea-Barrier® Alloy 100 PLUS may be thinned using Altex Thinner #10, additional coats may be required to attain the correct film thickness.

For brush / roller application, thin with Altex Thinner #25.

Clean-up:

Use Altex Thinner #10.

Application:

Sea-Barrier® Alloy 100 PLUS can be applied by either conventional spray or airless spray equipment.

Suggested spray equipment:

Conventional Air Spray

1.4mm to 1.8mm Fluid tip with appropriate air cap.

Airless Spray

Pump Ratio	30:1
Material Hose	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.)

Important:

Sea-Barrier® Alloy 100 PLUS is formulated for both spray and brush / roller application

Do NOT over build this coating. Film thickness control is critical to the performance of the coating, as service life is a direct function of film thickness.

Apply too much product, recoating before full cure is achieved and launching before full cure all will have a detrimental effect upon performance.

Strictly observe minimum recoat times.

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® Alloy 100 PLUS 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.