



Technical Data Sheet

Product Description

ECO-SEA 3 is a superior non-stick ceramic coating specially designed for marine use. This clear, robust coating has an embedded agent that gives it long-term resistance against marine biofouling, a common issue in marine environments.

The coating does not easily get damaged or lose its efficiency when maintained with periodic non-abrasive wiping and light scrubbing. Offering an impressive lifespan of **up to 10 years**, ECO-SEA 3 ensures durable protection and considerable savings on maintenance costs over time. This revolutionary coating takes a stand for the environment, devoid of harmful substances such as biocides, metal ablatives or other leachates.

Intended Uses

ECO-SEA 3 is specially formulated to provide optimal performance where multi season pollutant free effective marine biofouling protection is required. This product can be applied on all boats and other surfaces needing any easy to clean, durable coating that is effective protection from fouling. This product is suitable for GRP, gelcoat, steel, timber, ferro-cement and aluminium crafts.

Practical Information

Product Code	C3
Colour	Dries clear
Gloss	May impart some gloss depending on the surface
Practical Coverage	20m ² /L (when applied by HVLP spray)
Method of Application	HVLP Spray Application*
Density	0.91 kg/m ³
Thinner (for cleaning equipment)	Isopropyl Alcohol (IPA)

* HVLP spray using 1.0mm to 1.4mm tip at 30-40% turbine speed depending on size of hull or working area.

Temperature	Drying Time			Overcoating interval	
	Touch Dry	Hard Dry	Max Cure	Minimum	Maximum
20°C (68°F)	<1 hours	24 hours	3 days	Contact ECO-SEA 3	

Regulatory Data

Flash Point (Typical)	12°C
VOC	802g/L

Surface Preparation for New Hulls

Clean off oil, dirt and any containments including cleaning chemicals. Foreign substances such oil will reduce adhesion of the product and significantly affect performance and durability.

GRP/Gel Coat

Remove all surface contaminants, oils, fingerprints etc by thoroughly cleaning surface with IPA solvent and clean white cloths/rags. Prepare sound surface for coating by sanding evenly with 180 grit paper. Remove sanding dust with clean rags/towels wet with IPA solvent. Allow to dry. The surface is ready for spray application of ECO-SEA 3 without a primer or tie coat product.

Aluminium Alloy

Remove all surface contaminants, oils, fingerprints etc by thoroughly cleaning surface with IPA solvent and clean white cloths/rags. Use a white or light blue scourer pad as to not scratch the aluminium surface. Rub evenly and thoroughly. Perform a final wipe down with IPA and clean white cloths to remove any grease or oil or fingerprint remnants. It is essential for good adhesion to remove such contaminants completely. ECO-SEA 3 should be applied on the same day by spray application.

Safety in Handling and Application

Ensure work area is well ventilated and all forms of ignition are absent from the work area during spraying. Take all the established safety and PPE precautions necessary for spray application of flammable coatings. Please refer ECO-SEA 3 Safety Data Summary (SDS)

Application

Mixing Part A with Part B

Material is supplied in two containers as a unit. Always mix a complete unit in the proportions supplied. Once the unit has been mixed it must be used within the working pot life specified.

- Agitate Base (Part A) to ensure all product is uniformly dispersed.
- Agitate Curing Agent (Part B) to ensure all product is uniformly dispersed.
- Combine entire content of Curing Agent (Part B) with Base (Part A) and thoroughly mix.
- Cap mixed product with air tight lid to prolong the liquid state and delay curing).

Do not return any unused portion to the container and do not mix lids from Part A and Part B as the product may cure in the container.

Mix Ratio	Working Pot Life
1:1 by volume	30mins at 20°C (Above 20°C the pot life will be reduced)* <small>*Pot life can be increased if mixture is stored in an airtight container.</small>

Application Equipment

Use dedicated tools for the coating and do not contaminate with other liquids. Always clean with 100% IPA.

For small areas a paint pad, roller or brush can be used. Larger areas can be spray applied using a HVLP spray with fine tip preferred for minimising loss factors. Tip size 1.0-1.4mm as viscosity of products is that of water. Do NOT thin. When applying ensure that there are no streaks or drips and apply in small areas at a time. Three spray applications wet on wet should deliver the correct coverage.

Work Stoppages

Do not allow material to remain in hoses, guns, or spray equipment for extended periods. Thoroughly flush all equipment with 100% isopropyl alcohol (100% IPA).

Clean Up

Clean all equipment immediately after use with IPA. It is good working practice to periodically flush out spray equipment. All surplus materials and empty containers should be disposed of in accordance with appropriate regional regulations/legislation.

Product Characteristics

This technical datasheet provides general guidance on the use of ECO-SEA 3. Specific project requirements will be dependent upon the substrate type, substrate condition, service end use and environmental conditions. Always consult with ECO-SEA 3 is suitable for the intended end use. Application should be controlled according to the specification as over application can cause cracking.

Storage

Products should be stored in their sealed containers until use. When products are on site store in a cool place and in the shade. Store excess products in an air-conditioned environment regulated between 15-25°C. Do not return excess products to container, measure out what you require and dispense only what is required for the job at hand. Do not freeze or refrigerate below 5°C.

Safety Precautions

Make sure the work area is ventilated and there are no fire sources as product is solvent based and flammable. Avoid contact with skin. Correct personal protection equipment must be worn, see Safety Data Sheet (SDS) for more information. This product is intended for use only by professional applicators in industrial situations in accordance with the advice given on this sheet, the SDS and the container(s) and should not be used without reference to the SDS which are available on request. Ensure you contact our ECO-SEA 3 team if you require any information before starting application. Guidelines must be strictly followed including correct personal protection equipment (PPE), storage and disposal.

Additional Information

Shelf Life: 12 months, when stored in dark or low light conditions between 15-25°C (ideally this product should be stored in an air-conditioned environment).

Part A Pack Size: 1L, 2L, 4L and 10L containers

Part B Pack Size: 1L, 2L, 4L and 10L containers

Further information regarding industry standards, terms and abbreviations used in this data sheet can be found in the following documents available on request:

- ECO-SEA 3 Marine C3 Safety Data Sheet (refer to both Part A and Part B)
- Application Guidelines - ECO-SEA 3 Marine C3

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