

## Antifouling SeaSafe Ultra

### Product description

This is a one component acrylic, hydrolysing antifouling coating based on ion exchange technology. It provides very good fouling protection. This is achieved through self polishing characteristics reducing hull deterioration. To be used as finish coat in immersed environments only. Suitable on approved primers and tie coats on aluminium and carbon steel substrates.

### Typical use

Marine:

Recommended for under water hull in newbuilding and drydocking. Specially designed for aluminium vessels trading at relatively low speed and low to medium activity.

### Typical trade

coastal

### Colours

black, blue, grey

### Product data

Property	Test/Standard	Description
Solids by volume	ISO 3233	54 ± 2 %
Flash point	ISO 3679 Method 1	25 °C
Density	calculated	1,4 kg/l
VOC-EU	IED (2010/75/EU) (theoretical)	412 g/l

The provided data is typical for factory produced products, subject to slight variation depending on colour.

### Film thickness per coat

#### Typical recommended specification range

Dry film thickness	75 - 150	µm
Wet film thickness	139 - 278	µm
Theoretical spreading rate	7,2 - 3,6	m <sup>2</sup> /l

## Surface preparation

To secure lasting adhesion to the subsequent product all surfaces shall be clean, dry and free from any contamination.

### Surface preparation summary table

Substrate	Surface preparation	
	Minimum	Recommended
Coated surfaces	<p>New tie coat or new antifouling: Remove any contamination that could interfere with the intercoat adhesion. Exceeding maximum recoat intervals will require cleaning/abrading and/or application of additional coats, depending on condition.</p> <p>Aged antifouling with leached layer: Removal by thorough fresh water washing at minimum nozzle pressure 200 bar.</p>	<p>New tie coat or new antifouling: Remove any contamination that could interfere with the intercoat adhesion. Exceeding maximum recoat intervals will require cleaning/abrading and/or application of additional coats, depending on condition.</p> <p>Aged antifouling with leached layer: Removal by thorough fresh water washing at minimum nozzle pressure 340 bar.</p>

## Application

### Application methods

The product can be applied by

- Spray: Use airless spray.
- Brush: May be used. Care must be taken to achieve the specified dry film thickness.
- Roller: May be used. Care must be taken to achieve the specified dry film thickness.

### Product mixing

Single pack

### Thinner/Cleaning solvent

Thinner: Jotun Thinner No. 7

### Guiding data for airless spray

Nozzle tip (inch/1000): 21-31

Pressure at nozzle (minimum): 150 bar/2100 psi

## Drying and Curing time

Substrate temperature	5 °C	10 °C	23 °C	40 °C
Surface (touch) dry	60 min	45 min	30 min	15 min
Dry to over coat, minimum	12 h	9 h	7 h	6 h
Dried/cured for immersion	12 h	10 h	8 h	8 h

For maximum overcoating intervals, refer to the Application Guide (AG) for this product.

Drying and curing times are determined under controlled temperatures and relative humidity below 85 %, and at average of the DFT range for the product.

Surface (touch) dry: The state of drying when slight pressure with a finger does not leave an imprint or reveal tackiness.

Dry to over coat, minimum: The shortest time allowed before the next coat can be applied.

Dried/cured for immersion: Minimum time before the coating can be permanently immersed in sea water.

## Heat resistance

	Temperature	
	Continuous	Peak
Dry, atmospheric	60 °C	60 °C
Immersed, sea water	40 °C	40 °C

Peak temperature duration max. 1 hour.

The temperatures listed relate to retention of protective properties. Aesthetic properties may suffer at these temperatures.

Note that the coating will be resistant to various immersion temperatures depending on the specific chemical and whether immersion is constant or intermittent. Heat resistance is influenced by the total coating system. If used as part of a system, ensure all coatings in the system have similar heat resistance.

## Recommended type of primer

Anticorrosive primer system suitable for purpose. Recommended tie coat for the subsequent antifouling coat is Safeguard Universal ES or Safeguard Plus.

## Packaging (typical)

	Volume (litres)	Size of containers (litres)
Antifouling SeaSafe Ultra	20	20

The volume stated is for factory made colours. Note that local variants in pack size and filled volumes can vary due to local regulations.

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## Storage

The product must be stored in accordance with national regulations. Keep the containers in a dry, cool, well ventilated space and away from sources of heat and ignition. Containers must be kept tightly closed. Handle with care.

### Shelf life at 23 °C

Antifouling SeaSafe Ultra 6 month(s)

In some markets commercial shelf life can be dictated shorter by local legislation. The above is minimum shelf life, thereafter the paint quality is subject to re-inspection.

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## Caution

This product is for professional use only. The applicators and operators shall be trained, experienced and have the capability and equipment to mix/stir and apply the coatings correctly and according to Jotun's technical documentation. Applicators and operators shall use appropriate personal protection equipment when using this product. This guideline is given based on the current knowledge of the product. Any suggested deviation to suit the site conditions shall be forwarded to the responsible Jotun representative for approval before commencing the work.

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## Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not inhale spray mist. Avoid skin contact. Spillage on the skin should immediately be removed with suitable cleanser, soap and water. Eyes should be well flushed with water and medical attention sought immediately.

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## Colour variation

When applicable, products primarily meant for use as primers or antifoulings may have slight colour variations from batch to batch. Such products may fade and chalk when exposed to sunlight and weathering.

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## Disclaimer

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.

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