

## SeaQuest Endura II

### Product description

SeaQuest Endura II is a three component biocidal foul release coating based on advanced Elastotain® technology with the unique Flexcure™ tin-free curing technology. It is a high solids product with a diffusion controlled biocide release under challenging conditions. A smooth, ultra low friction surface reduces hull deterioration and improves hydrodynamic performance which enables operational flexibility in unpredictable trade. Recommended as a topcoat for immersed conditions over approved tiecoats only.

**A complete application procedure covering dry docking with Jotun Foul Release Coatings (FRC) is available, ref. TSS-TI-084.**

### Typical use

Marine:

Recommended for underwater hull in drydocking and newbuilding. Specially designed as a premium solution giving flexibility in vessel trade and activity. It has high gloss and excellent colour stability providing long term aesthetics appearance. This product is suitable for extended docking intervals up to 90 months as a part of a complete coating system.

### Typical trade

Designed for global unpredictable trades.

### Approvals and certificates

Compliant with IMO Antifouling System Convention AFS/CONF/26 + IMO MEPC.331(76).

Additional certificates and approvals may be available on request.

### Colours

Red, black

## Product data

Property	Test/Standard	Description	
<b>Standard grade</b>			
Solids by volume	ISO 3233	75 ± 2 %	
Flash point	ISO 3679 Method 1	33 °C	
Density	calculated	1 kg/l	
Region	Regulation	Test Standard	VOC Value
US	CARB(SCM)2020 / SCAQMD rule 1113	Calculated	211 g/l
Hong Kong	Air Pollution Control (VOC) Regulation	US EPA Method 24	211 g/l
EU	European Paint Directive 2004/42/CE	Calculated	211 g/l
Korea	Korea Clean Air Conservation Act	Calculated	211 g/l

China GB 30981-2020 Limit of harmful substances of industrial protective coatings GB/T 23985-2009 8.3 239 g/l

**Hot climate (HC) grade**

Solids by volume ISO 3233 75 ± 2 %  
Flash point ISO 3679 Method 1 33 °C  
Density calculated 1 kg/l

Region	Regulation	Test Standard	VOC Value
US	CARB(SCM)2020 / SCAQMD rule 1113	Calculated	215 g/l
Hong Kong	Air Pollution Control (VOC) Regulation	Calculated	215 g/l
EU	European Paint Directive 2004/42/CE	Calculated	215 g/l
EU IED	Industrial Emission Directive 2010/75/EU	Calculated	215 g/l
Korea	Korea Clean Air Conservation Act	Calculated	215 g/l
China	GB 30981-2020 Limit of harmful substances of industrial protective coatings	GB/T 23985-2009 8.3	250 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**

**Standard grade**

Dry film thickness 100 - 220 µm  
Wet film thickness 135 - 295 µm  
Theoretical spreading rate 7.5 - 3.4 m<sup>2</sup>/l

**Hot climate (HC) grade**

Dry film thickness 100 - 220 µm  
Wet film thickness 135 - 295 µm  
Theoretical spreading rate 7.5 - 3.4 m<sup>2</sup>/l

## Surface preparation

**Surface preparation summary table**

Substrate	Surface preparation	
	Minimum	Recommended
Coated surfaces	Clean, dry and undamaged compatible coating	Clean, dry and undamaged compatible coating



After finished application the substrate temperature must be kept at minimum 5 °C for at least 2 hours. Lowest substrate temperature during the drying/curing period is 0 °C. If the temperature during drying/curing is 0 °C, the minimum time for immersion is 44 hours.

Drying and curing times are determined under controlled temperatures and relative humidity below 85 %, and above 30 %, and at average of the DFT range for the product.

For detailed overcoating instructions when rain is expected refer to TSS-TI-084.

For instructions on wet in wet application see TSS-TI-084.

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

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

## Induction time and Pot life

Paint temperature	23 °C	30 °C	40 °C
<b>Standard grade</b>			
Pot life	45 min	45 min	
<b>Hot climate (HC) grade</b>			
Pot life	1.5 h	1 h	30 min

## Recommended type of primer

Tie coat for the subsequent foul release coat is:  
Safeguard FRC PE II  
Safeguard FRC S

## Additional information

Fouling release coatings are in general mechanically weaker than traditional self-polishing coatings and cautions needs to be taken to avoid mechanical abrasion after application.

## Packaging (typical)

	Volume (litres)	Size of containers (litres)
<b>Standard grade</b>		
SeaQuest Endura II Comp A	17	20
SeaQuest Endura II Comp B	0.7	1
SeaQuest Endura II Comp C	0.45	1
<b>Hot climate (HC) grade</b>		
SeaQuest Endura II Comp A	17	20
SeaQuest Endura II Comp B	0.7	1
SeaQuest Endura II Comp C HC	0.75	1

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

## Storage

The product must be stored in accordance with national regulations. Keep the containers in a dry, shaded, 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

SeaQuest Endura II Comp A	24 month(s)
SeaQuest Endura II Comp B	24 month(s)
SeaQuest Endura II Comp C	12 month(s)
SeaQuest Endura II Comp C HC	12 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.

## 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.

## 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.

## Colour variation

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

Colour and gloss retention on topcoats/finish coats may vary depending on type of colour, exposure environment such as temperature, UV intensity etc., application quality and generic type of paint. Contact your local Jotun office for further information.

## 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.

# Technical Data Sheet

## SeaQuest Endura II



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

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