SeaQuantum XT

Product description

SeaQuantum XT is a one component state of the art chemically hydrolyzing silyl methacrylate antifouling coating that delivers robust performance for high fouling intensity trades.

SeaQuantum XT is built on SeaQuantum´s global experience in silyl and silyl methacrylate antifouling technology, with over 20.000 applications worldwide.

SeaQuantum XT is powered by ActiCore™ Technology - a unique and patented in-house binder technology with optimized biocide package designed to deliver consistent, reliable protection against slime and algae. This coating gives initial ultra smooth surface providing excellent out-of-dock performance. It has highly predictable and stable self-polishing properties providing excellent in-service performance.

Application of SeaQuantum XT shall follow the instructions in the Working Procedure Jotun - Hull Performance Solutions.
For further advice please contact your local Jotun office.

Typical use

Marine: For underwater hull in drydocking and newbuilding with exposure to seawater during outfitting.

SeaQuantum XT can be applied at sub-zero surface temperatures.

SeaQuantum XT is an ultra-premium solution for vessels whose main focus is robust performance for high fouling intensity trades, cut carbon emissions, protect biodiversity, and preserve fuel.

This antifouling coating is designed for long service periods and can be used up to 90 months as a part of a complete coating system.

Typical trade

Designed for high fouling intensity 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

dark red, light red

This Technical Data Sheet supersedes those previously issued.
The Technical Data Sheet (TDS) is recommended to be read in conjunction with the Safety Data Sheet (SDS) and the Application Guide (AG) for this product. For your nearest local Jotun office, please visit our website at www.jotun.com

Product data

Property	Test/Standard	Description
Solids by volume	ISO 3233	59 ± 2 %
Flash point	ISO 3679 Method 1	27 °C
Density	calculated	1.7 kg/l

Region	Regulation	Test Standard	VOC Value
EU	European Paint Directive 2004/42/CE	Calculated	369 g/l
Korea	Korea Clean Air Conservation Act	KS M ISO 11890-1	386 g/l
China	GB 30981-2020 Limit of harmful substances of industrial protective coatings	GB/T 23985-2009 8.3	375 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	-	175	µm
Wet film thickness	130	-	300	µm
Theoretical spreading rate	7.9	-	3.4	m²/l

Max total DFT for multiple coats in the antifouling system: 600 µm

Surface preparation

Surface preparation summary table

Substrate	Surface preparation	
	Minimum	Recommended
Coated surfaces	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. Aged antifouling with leached layer: Removal by thorough fresh water	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. Aged antifouling with leached layer: Removal by thorough fresh water

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	washing at minimum nozzle pressure 200 bar.	washing at minimum nozzle pressure 340 bar.

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 / Jotun Thinner No. 10

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	-10 °C	0 °C	10 °C	23 °C	40 °C
Surface (touch) dry	8 h	2 h	45 min	30 min	30 min
Dry to over coat, minimum	27 h	16 h	9 h	7 h	6 h
Dried/cured for immersion	39 h	24 h	10 h	9 h	8 h

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

The dried/cured for immersion data in the above table is the time required until the product is ready for sailing. For mechanical resistance to fenders and similar equipment longer drying times may be required. Please consult the Application Procedure for further advice.

When high film thickness is applied the antifouling will stay soft longer. To enable hull roughness reading when two or more antifouling coats are applied in rapid succession it is recommended to double the minimum time for immersion.

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.

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

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

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)
SeaQuantum XT	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.

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.

Storage temperature not to exceed 35 °C.

Shelf life at 23 °C

SeaQuantum XT 9 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 applicator and operator 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 should 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 in 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 sought medical attention 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 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 data given 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.