

# Technical Data

## SeaQuantum X200



Jotun Protects Property



### Product description

This product is the latest development in tin-free, high performance, ultra low friction, self-polishing antifouling, based on the latest development in hydrolysing silyl methacrylate copolymers. This copolymer dissolves in seawater at a rate permitting the continuous exposure of fresh antifouling and minimizing build up of leached layers. The product secures long term fuel performance by maintaining a smooth surface free of fouling. The SeaQuantum X200 assortment features a solution for all vessel types and trading patterns. IMO Anti-fouling System Convention compliant (AFS/CONF/26).

SeaQuantum X200-1: intended for low speed vessels, like coastal etc.

SeaQuantum X200-2: intended for middle speed vessels, like BC and COT etc.

SeaQuantum X200-3: intended for high speed vessels, like container etc.

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### Recommended use

As an antifouling for newbuildings and major refurbishment, for side and flatbottom areas on vessels with drydocking intervals up to 90 months where long term fuel economy is the primary focus.

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### Film thickness and spreading rate

	Minimum	Maximum
Film thickness, dry ( $\mu\text{m}$ )	75	175
Film thickness, wet ( $\mu\text{m}$ )	135	320
Theoretical spreading rate ( $\text{m}^2/\text{l}$ )	7,3	3,1

### Comments

Application of the product to 200  $\mu\text{m}$  dry film thickness is possible if the application of the second coat is not overlapping at the same area where the overlap zone for the first coat.

## Physical properties

<b>Colour</b>	Dark Red, Light Red
<b>Solids (vol %)*</b>	55 ± 2
<b>Flash point</b>	25±2 (Setaflash)
<b>VOC</b>	3,51 lbs/gal (420 gms/ltr) USA-EPA Method 24

\*Measured according to ISO 3233:1998 (E)

Hong Kong rules: Category of paints - Antifouling coatings; VOC 420 gms/ltr HK EPD method (Ready to use); Exempt compound - N/A; Specific gravity: 1.94; Both VOC and Specific gravity values provided are typical values, subject to changes when different colour involved.

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## Surface preparation

### Coated surfaces

To be applied on a clean, dry approved primer/undercoat or intact self-polishing antifouling in accordance with Jotun's requirements. Remove surface contamination by high pressure fresh water cleaning.

### Other surfaces

The coating may be used on other substrates. Please contact your local Jotun office for more information.

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## Condition during application

The coating could be applied down to -15°C surface temperature. Temperature of the substrate should be minimum 3°C above the dew point of the air, temperature and relative humidity measured in the vicinity of the substrate. Good ventilation is required in confined areas to ensure proper drying and curing. The coating should not be exposed to oil, chemicals or mechanical stress until it is thoroughly dried. During application and the initial drying of the coating, the coating should not be exposed to high humidity as this can result in loss of gloss and discolouration.

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## Application methods

<b>Spray</b>	Use airless spray
<b>Brush</b>	May be used but care must be taken to achieve the specified dry film thickness.
<b>Roller</b>	May be used. However when using roller application care must be taken to apply sufficient material in order to achieve the specified dry film thickness.

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## Application data

<b>Mixing ratio (volume)</b>	Single pack.
<b>Thinner/Cleaner</b>	Jotun Thinner No. 7
<b>Guiding data airless spray</b>	
<b>Pressure at nozzle</b>	15 MPa (150 kp/cm <sup>2</sup> , 2100 psi.).
<b>Nozzle tip</b>	0.53 - 0.78 mm (0.021 - 0.031").
<b>Spray angle</b>	65 - 80°
<b>Filter</b>	Check to ensure that filters are clean.

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## Drying time

Drying times are generally related to air circulation, temperature, film thickness and number of coats, and will be affected correspondingly. The figures given in the table are typical with:

- \* Good ventilation (Outdoor exposure or free circulation of air)
- \* Typical film thickness
- \* One coat on top of inert substrate

Substrate temperature	-10°C	0°C	10°C	23°C	40°C
Surface dry	8 h	2 h	45 min	30 min	30 min
Dry for launching <sup>1</sup>	39 h	24 h	10 h	9 h	8 h
Dry to recoat, minimum <sup>2</sup>	27 h	16 h	9 h	7 h	6 h

1. Indicate the time which normally occurs in a drydocking situation where the drying time depends on the total film thickness of primer/antifouling applied. The drying time will increase with increasing film thickness. When three or more antifouling coats are applied in a rapid succession it is recommended to double the launch time. When applying at low temperatures (below 10°C), high humidity and low ventilation will increase the drying time. As antifouling is physically drying paint, good ventilation is required especially on the flat bottom and in sea chests. If thinning is required at these lower temperatures, special attention shall be given to the application to reduce the risk of sagging.
2. The surface should be dry and free from any contamination prior to application of the subsequent coat.

The given data must be considered as guidelines only. The actual drying time/times before recoating may be shorter or longer, depending on film thickness, ventilation, humidity, underlying paint system, requirement for early handling and mechanical strength etc. A complete system can be described on a system sheet, where all parameters and special conditions could be included.

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## Recommended type of primer:

Anticorrosive primer system suitable for purpose with Safeguard Plus or Safeguard Universal ES as sealer coat/ tie-coat.

**Other systems may be specified, depending on area of use**

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## Storage

Storage conditions are to keep the container in a dry, cool well ventilated space and away from source of heat and ignition and in accordance to national regulations. Containers must be kept tightly closed and kept away from freezing. Shelf life is minimum 12 months at 23°C. Subject to re-inspection thereafter. Storage at elevated temperatures will reduce product shelf life significantly.

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## Handling

Handle with care. Stir well before use.

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## Packing size

20 litre container.

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## Health and safety

Please observe the precautionary notices displayed on the container. Use under well ventilated conditions. Do not breathe or inhale 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.

**For detailed information on the health and safety hazards and precautions for use of this product, we refer to the Material Safety Data Sheet.**

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### DISCLAIMER

The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product can be used under conditions beyond our control, we can only guarantee the quality of the product itself. We also reserve the right to change the given data without notice. Minor product variations may be implemented in order to comply with local requirements.

If there is any inconsistency in the text the English (UK) version will prevail.

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