

Technical Data

SeaQuantum Ultra S



Product description

This product is an outstanding low friction high performance self-polishing and self-smoothing antifouling coating, based on a hydrolysing organosilyl polymer as binder. This binder dissolves in seawater at a rate permitting the continuous exposure of fresh antifouling.

IMO Anti-fouling System Convention compliant (AFS/CONF/26).

Recommended use

As an antifouling coating on ships/ferries with short distance in service and frequent calls in port, on laid-up ships/storage tankers and on stationary installations.

Film thickness and spreading rate

	Minimum	Maximum
Film thickness, dry (μm)	75	175
Film thickness, wet (μm)	150	350
Theoretical spreading rate (m^2/l)	6,6	2,8

Physical properties

Colour Dark Red, Light Red

Solids (vol %)* 50 \pm 2

Flash point 25 \pm 2 (Setaflash)

VOC 3,8 lbs/gal (455 gms/ltr) USA-EPA Method 24

*Measured according to ISO 3233:1998 (E)

Hong Kong rules: Category of paints - Antifouling coatings; VOC 455 gms/ltr HK EPD method (Ready to use); Exempt compound - N/A; Specific gravity: 1.76;

Both VOC and Specific gravity values provided are typical values, subject to changes when different colour involved.

Surface preparation

Coated surfaces

Prior to paint application, all surfaces should be clean, dry and free from contamination. Remove surface contamination by high pressure fresh water cleaning. To be applied on a clean, dry approved primer/undercoat or intact self-polishing antifouling.

Other surfaces

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

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.

Application methods

Spray	Use airless spray
Brush	May be used but care must be taken to achieve the specified dry film thickness.
Roller	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.

Application data

Mixing ratio (volume)	Single pack.
Mixing	Always to be mixed thoroughly with a power agitator before application
Thinner/Cleaner	Jotun Thinner No. 7
Guiding data airless spray	
Pressure at nozzle	15 MPa (150 kp/cm ² , 2100 psi.).
Nozzle tip	0.53 - 0.78 mm (0.021 - 0.031").
Spray angle	65 - 80°
Filter	Check to ensure that filters are clean.

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	5 h	2 h	45 min	30 min	30 min
Dry for launching ¹	36 h	24 h	10 h	9 h	8 h
Dry to recoat, minimum ²	24 h	16 h	9 h	7 h	6 h

1. Indicates 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 paints, good ventilation is required especially on the flat bottom and in sea chests. If thinning is required at these lower temperatures, special attention should then 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.

Recommended type of primer:

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

Other systems may be specified, depending on area of use

Storage

The product must be stored in accordance with national regulations. Storage conditions are to keep the containers in a dry, cool, well ventilated space and away from source of heat and ignition. Containers must be kept tightly closed. Shelf life at 23°C: 12 months for standard colour(s) and 6 months for other colour(s), if available. Thereafter the paint quality is subject to re-inspection.

Handling

Handle with care. Stir well before use.

Packing size

20 litre container.

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.

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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