

Technical Data

SeaQuantum Plus



Product description

SeaQuantum Plus is a 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 for newbuildings and major refurbishment, for boot top, side- and flatbottom areas on vessels operating at medium/high speed with drydocking intervals up to 60 months.

Film thickness and spreading rate

| | Minimum | Maximum |
|--|---------|---------|
| Film thickness, dry (μm) | 75 | 150 |
| Film thickness, wet (μm) | 160 | 320 |
| Theoretical spreading rate (m^2/l) | 6,2 | 3,1 |

Comments

Hong Kong rules: Category of paints - Antifouling coatings; VOC 470 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.

Physical properties

| | |
|-----------------|---|
| Colour | Dark Red, Light Red |
| Solids (vol %)* | 47 \pm 2 |
| Flash point | 25 \pm 2 (Setaflash) |
| VOC | 3,92 lbs/gal (470 gms/ltr) USA-EPA Method 24 460 gms/ltr UK-PG6/23(97). Appendix 3 |

*Measured according to ISO 3233:1998 (E)

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.

Condition during application

The 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 usually required in confined areas to ensure correct drying.

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.

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 paint, 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 Vinyguard Silvergrey 88 as 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.

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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