SeaQueen Extreme Antifouling

Product Description

Innovative antifouling coating, tin & copper free. It can be applied to vessels with speed up to 40kt. It also responds (fouling free) to vessels' needs that remain idle, move at a very low or very high speed for extended periods. Ideal for sea environments with a high degree of fouling from microorganisms (hard fouling: barnacles). It conforms to the strictest National, Community and International Regulations of the International Maritime Organization (IMO). Ideal antifouling formulation for application on aluminum hulls or wherever copper formulations prove incompatible to substrate.

The **SeaQueen Extreme** is an antifouling coating based on self-polishing mechanism. The final coat depicts very low roughness (Roughness 25 to 40μm) due to the absence of cuprous oxide and the paint formulation during production. The low roughness of the final coating does not only reduce the friction of water but also allows even leachable release (leaching rate) and therefore better antifouling protection even in long idle periods. In the end, the **SeaQueen Extreme** composition also contributes to energy saving and better antifouling action.

Recommended Use

Recommended as a high-performance antifouling coating for ocean going vessels and/or when vessel's idle periods extend more than one month (30 days). Ideal for both stationary and slow-/fast-moving vessels. Provides long-term antifouling protection for non-moving structures in the marine environment, like floating facilities and platforms. Ideal for coastal or closed-sea antifouling protection, where copper (I) biocides pose a threat to environmental diversity.

Approval and Certificates

Approved by Lloyd's Register, for use as a TBT-Free Anti-Fouling System, which is in compliance with the IMO International Convention on the Control of Harmful Anti-fouling Systems on Ships and by RINA & ABS. Certificates can be provided upon request.

Film Thickness Per Coat

	Minimum	Maximum	Recommended
Dry Film Thickness (μm):	75	150	100
Wet Film Thickness (μm):	125	250	167
Coverage Rate (m^2/L):	8	4	6

Drying times differentiate in minimum or maximum values. Maintain recommended values during application. Coverage rate is theoretical and does not include any losses.

Properties

Type ▶	Antifouling Paint based on Copolymer Resin	**Touch Dry Time** ▶	30min @ 20℃
Components ▶	Single Component	**Dry Through Time** ▶	5h @ 20℃
Color ▶	Red Brown / Light Red / Blue / Black	**Min. Recoat Interval** ▶	4h @ 20℃
Thinner/ Cleaning Solvent ▶	NanoPhos Thinner B	**Min. Time to Immersion** ▶	18h @ 20℃
Mixing Ratio ▶	Single Component	**Flash Point** ▶	22℃
VOC ▶	500 g/L	**Water Resistance** ▶	Excellent
Solids (%vol.) ▶	60±3	**Abrasion Resistance** ▶	Very Good

Surface Preparation

Compatible Coats: All surfaces should be clean, dry and free from oil, grease and other foreign matters or contamination. Preparation according to ISO 8502-3:1992 Test for the assessment of surface cleanliness.

Application

Airless Spraying ▶	Minimum pump: 30:1. Nozzle: 19-22
Brush ▶	Recommended application method only for stripe coating or small areas.

Substrate temperature should be minimum 5℃ and at least 3℃ above air dew point. Good ventilation is required to ensure proper drying.

Paint System

Please contact NanoPhos Marine for more information.

Health And Safety

I. Use normal precautions such as gloves, facemasks.
II. Adequate ventilation must be maintained.
III. Explosion proof lights & electrical equipment.
IV. Non- Sparking shoes & tools for workers in area.
V. This product contains flammable materials. Forbid all flames, smoking and welding in work area.
VI. Avoid breathing of vapor, contact with skin or eyes. If product comes in contact with skin or eyes, wash thoroughly with water and obtain medical attention.

Available Packaging

- Metal canisters: 1L, 2.5L, 5L & 20L

Notes & Precautions: Storage of closed containers, in controlled dry and enclosed space, away from sources of ignition and temperatures from 5°C to 35°C, for up to 18 months. The Technical Data should be read in conjunction with the Safety Data Sheets and Coating Technical Specification. This product is for professional use only. For more information please contact NanoPhos Marine: **www.NanoPhos-Marine.com**

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