BERGER® PAINTS

NAVILUX 1100

Self-Polishing Anti-Fouling

PRODUCT SPECIFICATIONS

Product Description

A tin and copper free, self-leveling antifouling based on specially developed hydrolyzing organosilyl polymer and balanced combination of biocides. This polymer chemistry enables leaching control and allows easy recoating after service life. The product is suitable for applying on Aluminium hulls to with docking interval of 18 to 24 months.

Design Feature

- A long-life self-polishing antifouling coating designed for use in vessels in medium to high speed service requiring extended docking intervals.
- Suitable for new vessels and for upgrading existing long-life systems.
- Especially designed with a controlled erosion rate to achieve a highly effective long-life protection against marine fouling by controlled release of active biocides.
- Self-polishing nature also results in smooth surfaces hence reducing overall hull roughness, which improves fuel consumption.
- Recognized by DNV-GL as a TBT-Free Anti-fouling Paint compliant with IMO International
- Convention on the Control of Harmful Anti-fouling Systems on Ships.

Physical Characteristics

Recommended Application Data	Wet [µm]	Dry [µm]	m^2/l
Theoretical Coverage	147	100	6.8

Volume Solids	:	51%
Dry Film Thickness Range	:	75 µm to 150 µm
Flash Point	:	>25 °C
Finish	:	Low Sheen
Colour Range	:	Limited
Standard Packing Size	:	20 L

Application Method

AIRLESS SPRAY : Recommended method of application

Tip Size	:	0.41 – 0.58 mm
Pressure	:	120 – 180 kg/cm2
Spray angle	:	40 – 80 degrees
Volume thinner	:	0 – 3%

BRUSH OR ROLLER : Suitable but airless spray is preferred. Multiple coats may be required to achieve the specified dry film thickness.

Volume thinner : 0 – 5%

Drying & Curing Time

Substrate Temperature	Touch Dry	Hard Dry	Dry to Recoat		Minimum drying time for undocking
			Min.	Max.	
15 °C	2 hours	8 hours	8 hours	6 months	16 hours
25 °C	1 hour	6 hours	6 hours	6 months	12 hours
35 °C	30 mins.	4 hours	4 hours	3 months	10 hours

Useful Information

THINNER	:	SOLVALUX 7-25
CLEANER	:	SOLVALUX 7-25
STORAGE	:	Store in a cool dry shaded area.
SHELF LIFE AT 25 °C	:	12 months minimum when stored as prescribed in the MSDS.

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Surface Preparation

The service life span and the service performance of NAVILUX 1100 is directly related to the degree of surface preparation, existing paint system and thickness of the new applied system.

ALUMINIUM (NEW CONSTRUCTION)

- Navilux 1100 must be applied to aluminium primed suitably.
- Apply a suitable primer, e.g. Epimastic 3100 immediately after cleaning of the substrate along with light sanding
- Then complete the specified coating system by applying the subsequent coats, making
- sure that :
- The specified overcoating times of each coat have not been exceeded.
- Ensure that the surface to be over-coated is clean, dry, and free from dust, grease and oil, or any other surface contaminants.

MAINTENANCE (Over existing anti-fouling coatings)

- The surface to be coated must be dry and free from fouling, salts & other contaminants.
- Remove salts & dirt by fresh water washing. Freshwater jet or scrape to remove all accumulated fouling and loose and flaking coatings. Corroded &/or damaged areas should be repaired first with an appropriate primer system.

To avoid condensation of moisture onto substrate prior to coating application, relative humidity should not exceed 85% and substrate temperature should be more than 3^{o}C above Dew Point.

Suitable Primers

Epimastic 3100

Notes

Life time expectations are difficult to estimate, as it is dependent on many factors can be beyond control such as vessel's speed and sailing pattern, seawater quality and temperature. Therefore the above stated antifouling specification should be used for guidance only. It is recommended that after final coat of antifouling it should be launch in water within 16 to 24hrs. Consult your Berger Paints Singapore sales representative for more information.

Safety Precaution

- This product is intended for use by professional applicators. As a general rule, avoid contact with eyes and skin. Wear suitable protective clothing such as overalls, goggles, dust mask and gloves. Use barrier cream.
- Ensure that there is adequate ventilation in the area where the product is being applied. Do not breathe in vapour or spray mist.
- This product is flammable. Keep away from sources of ignition. Do not smoke.
- Take precautionary measures against static discharge.
- In case of fire, blanket flames with foam, carbon dioxide or dry chemicals.

First Aid

Eyes : In the event of accidental splashes, flush eyes with warm water immediately and seek medical advice.

Skin : Wash skin thoroughly with soap and water or approved industrial cleaner. Do Not Use solvents or thinners.

Inhalation : Remove to fresh air, loosen collar and keep patient rested.

Ingestion : In case of accidental ingestion, DO NOT INDUCE VOMITING. Obtain immediate medical attention.

For further safety information, please refer to our **Material Safety Data Sheet (MSDS)**

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