BERGER® PAINTS

NAVILUX 1300

Self-Polishing Anti-Fouling

PRODUCT SPECIFICATIONS

Product Description

A tinfree Self Polishing antifouling based on specially developed with optimum combination of Self Polishing Copolymer (SPC) and Controlled Depletion Polymer (CDP) designed for use in vessels with medium speed service requiring extended docking intervals. The surface is selfabrasive by a carefully adjusted balance of hydrophobic and hydrophilic binders. This mechanism enables leaching control and allows easy re-coating after service life.

Design Feature

- A long-life self-polishing antifouling coating designed for use in vessels in medium speed service requiring extended docking intervals up to 36 months.
- Suitable for new vessels and for upgrading existing longlife systems.
- Especially designed with a controlled erosion rate to achieve a highly effective long-life protection against marine foulings 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 Llyod's Register and 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]	m²/l
Theoretical Coverage	245	125	4.08

Volume Solids	:	51%
Dry Film Thickness Range	:	75 µm to 150 µm
Flash Point	:	>25 °C
Finish	:	Low Sheen
Colour Range	:	Red & Brown
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	12 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 1300 is directly related to the degree of surface preparation, existing paint system and thickness of the new applied system.

STEEL (NEW CONSTRUCTION)

- Navilux 1300 must be applied to steel that has been abrasive blasted and suitably primed.
- The steel must be abrasive blast cleaned to a minimum standard of Sa2½ (ISO 8501- 1:1988) or SSPC-SP10. An average surface profile of 50 microns is acceptable, but this average should not exceed 75 microns.
- Apply a suitable primer, e.g. Epilux 610 immediately after blasting to prevent oxidation and recontamination of the steel surface. In case of oxidation or recontamination, re-blast to the required standard.
- 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 self-polishing anti-fouling)

- 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 followed by abrasive blasting upto Sa2.5. Apply suitable 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°C above Dew Point.

Suitable Undercoats

Epilux 610, Epimastic 3000HS, Epimastic 3100, Epilux 18HS, Luxavin 1480

Notes

Life time expectations are difficult to give, as it is dependent on many factors beyond our 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. 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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