BERGER® PAINTS

NAVILUX 4900

Tin-free blanced Anti-Fouling

PRODUCT SPECIFICATIONS

Product Description

A tin-free polishing antifouling based on specially developed mixture of new age vinyl chloride - vinyl isobutyl ether polymers and pigmented with a highly effective combination of biocides. The surface is self-abrasive by a careful adjusted balance of hydrophobic and hydrophilic binders. This mechanism enables leaching control and allows easy recoating after service life.

Design Feature

- Especially designed with a controlled erosion rate to achieve a highly effective long-life protection against marine fouling due control release of biocides.
- Suitable for use on a variety of hulls, e.g. steel, wood etc.
- Highly active biocides package that gives an expected anti-fouling protection for vessel docking interval of 18-30 months
- Smooth finishing that is easy to apply. Easy maintenance coating.
- Recognized by Llyod's Register of Shipping and DNV-GL as a TBT-Free Anti-fouling Paint compliant with MO 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	112	75	8.9

Volume Solids	:	67 % (based on ASTM D2697)
Dry Film Thickness Range	:	75 µm to 125 µm
Flash Point	:	28 °C
Finish	:	Low Sheen
Colour Range	:	Red & Brown
Standard Packing Size	:	20 L

Application Method

AIRLESS SPRAY Recommended method of application	:	Tip Size : 0.53 – 0.66 mm (21 – 26 thou) Pressure : 110 - 150 kg/cm² (1600 – 2100 psi)
CONVENTIONAL SPRAY	:	May be used.
BRUSH OR ROLLER	:	Also recommended. However, additional coats may be required to achieve the recommended film thickness.

Drying & Curing Time

Substrate Temperature	Touch Dry	Hard Dry	Over-coating Interval	
			Min.	Max.
15 °C	4 hours	12 hours	12 hours	Indefinite
25 °C	2 hours	6 hours	6 hours	Indefinite
35 °C	1 hour	3 hours	4 hours	Indefinite

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 4900 is directly related to the degree of surface preparation and the integrity of the existing paint system.

STEEL (NEW CONSTRUCTION)

- Navilux 4900 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^{0}C above Dew Point.

For specific recommendations to suit individual applications, please refer to your Berger Paints representative.

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.
- Anti-fouling protection period quoted is based on normal trading conditions without extended anchoring periods.
- Ensure that the final dried film build is as per recommendation to achieve its designed life for protection against marine foulings.

Safety Precaution

- 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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