



BERGER

PRODUCT SPECIFICATIONS

NAVILUX 1100

Self Polishing Anti-Fouling

PRODUCT DESCRIPTION

A tin-free Self Polishing an self-leveling antifouling based on specially developed hydrolyzing organosilyl polymer and pigmented with a combination of biocides. This polymer chemistry enables leaching control and allows easy recoating after service life. The product is suitable for upgrading existing long-life systems.

DESIGN FEATURES

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 Llyod's Register of Shipping 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]	m^2/l
Theoretical Coverage	230	125	4.4
Volume solids	55%		
Dry Film Thickness Range	75 μm to 150 μm		
Flash Point	>25 °C		
Finish	Matt		
Colour Range	Red & Brown		
Standard Packing Size	20 litres		

APPLICATION METHOD

AIRLESS SPRAY Recommended method of application	Tip Size	: 0.41 – 0.58 mm
	Pressure	: 120 – 180 kg/cm ²
	Spray angle	: 40 – 80 degrees
	Volume of 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 of thinner: 0 – 5%	

DRYING TIME

Substrate Temperature	Touch Dry	Hard Dry	Dry to recoat		Minimum drying time for undocking
			Minimum	Maximum	
15 °C	1 hour	8 hours	8 hours	6 months	16 hours
25 °C	1 hour	6 hours	6 hours	6 months	12 hours
35 °C	30 minutes	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 1100 is directly related to the degree of surface preparation, existing paint system and thickness of the new applied system.

STEEL (NEW CONSTRUCTION)

- Navilux 1100 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. 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°C above Dew Point.

SUITABLE UNDERCOATS	Epilux 610, Epimastic 3100, Luxavin 1480, Luxavin 3700
NOTES	Life times 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. Seek immediate medical advice.

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)**

DISCLAIMER

The information provided on this data sheet is not intended to be complete and is provided as general advice only. It is the responsibility of the user to ensure that the product is suitable for the purpose for which he wishes to use it. As we have no control over the treatment of the product, the standard of surface preparation of the substrate, or other factors affecting the use of this product, we are not responsible for its performance nor would we accept any liability whatsoever or howsoever arising from the use of this product unless specifically agreed to in writing by us. The information contained in this data sheet may be modified by us from time to time, and without notice, in the light of our experience and continuous product development.