

HelixPro

Propeller Protection System

Product Description

HelixPro Coating is the next generation of propeller fouling release coatings. It bonds directly to the metal surface, therefore it eliminates the use of primer coat and associated costs of multiple prefabrication coats (primers) application and time. The impermeable coat formed after the curing process will offer superior protection against corrosion for ferrous & non-ferrous metals. Excellent performance will provide a multi-seasonal service of 3 years.

Recommended Use

Designed to provide protection on all underwater surface types made of **bronze, aluminum, stainless steel and alloys**: propellers (outboard – inboard, arneson type) rudders, propeller shafts, shafts brackets, trim tabs, bow-thrusters, stern-thrusters, swim platform brackets, swim ladders.

Film Thickness Per Coat

	Minimum	Maximum	Recommended
Dry Film Thickness (µm)	75	125	100
Wet Film Thickness (µm)	94	156	125
Coverage Rate (m ² /L)	10.6	6.4	8

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 ▶	Silicone Epoxy	Touch Dry Time▶	3h @ 20°C
Components ▶	Base A & Hardener B	Dry Through Time ▶	12h @ 20°C
Color ▶	Transparent	Min. Recoat Interval ▶	24h @ 20°C
Thinner/ Cleaning Solvent ▶	NanoPhos Thinner A	Min. Time to Immersion ▶	24h @ 20°C
Mixing Ratio ▶	4:1, A:B per volume	Induction Time ▶	15min @ 20°C
VOC ▶	<240 g/L	Flash Point ▶	>23°C
Solids (%vol.) ▶	75±3	Water Resistance ▶	Excellent
Max. Pot Life ▶	6h @ 20°C	Abrasion Resistance ▶	Excellent
Elasticity ▶	1.0-1.4 GPa Young Modulus	Flexibility ▶	<4mm in Mandrel
		Weathering ▶	min. 3000h QUV-A

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

Conventional Spraying ▶	Paint pressure pot with power agitator, double air regulators, moisture trap, 1/2" ID fluid hose, 5/16" ID air hose, DeVilbiss 510 gun, "E" tip and needle, 74 or 78 air cap.
Airless Spray ▶	Minimum pump: 30:1, Nozzle: 19-23
Brush ▶	Recommended application method only for stripe coating or small narrow areas.

Substrate temperature should be minimum 5°C and at least 3°C 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

- 250ml unit (Total 250L in two containers | 4:1, A:B per volume)
- 500ml unit (Total 500L in two containers | 4:1, A:B per volume)
- 1L unit (Total 1L in two containers | 4:1, A:B per volume)
- 2.5L unit (Total 2.5L in two containers | 4:1, A:B per volume)
- 20L unit (Total 20L in two containers | 4:1, A:B per volume)

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