

EENova Modified Polyamide Epoxy Coating

Product Description

EENova is unique among its kind for incorporating silicon elastomer nanoparticles. Its structure is described by a soft, elastomer core that can adhere on the resin binder. The core competency of the resulting coating is that energy storage/absorbing particles are introduced in the formulation, without any durability sacrifice. The energy absorbing particles promote the abrasion resistance and absorb acute abrasive forces protecting the integrity of both coating and substrate.

Recommended Use

EENova is a polyamide epoxy coating for use on cargo hold surfaces at Newbuilding or Maintenance & Repair. Suitable for external use, under adverse weathering conditions and up to substrate temperature of 250°C (480F).

Film Thickness Per Coat

	Minimum	Maximum	Recommended
Dry Film Thickness (µm)	100	250	150
Wet Film Thickness (µm)	118	294	176
Coverage Rate (m ² /L)	8.5	3.4	5.67

Drying times differentiate in minimum or maximum values. Maintain recommended values during application. Coverage rate is Theoretical and does not include any losses.

Key Benefits

- Modified with “nano-pillows” for extreme impact resistance
- Super durable against wearing and abrasion
- Recommended for corrosive environment of heavy duty cargo holds.
- Mar-resistant and seawater submersible
- Reduces moist cargoes from cargo holds condensation
- Light-colored to aid inspection operations - no more hidden components
- Long-term performance

Properties

Type ▶	Polyamide Epoxy Coating	Touch Dry Time▶	3h @ 25°C
Components ▶	Base A & Hardener B	Dry Through Time ▶	8h @ 25°C
Color ▶	Color Card	Min. Recoat Interval ▶	Not Needed
Thinner/ Cleaning Solvent ▶	NanoPhos Thinner A	Induction Time ▶	15min @ 25°C
Mixing Ratio ▶	4:1, A:B per volume	Flash Point ▶	23 @ 60°C
VOC ▶	<450 g/L	Water Resistance ▶	Excellent
Solids (%vol.) ▶	85±1 (ISO 3233:1998)	Abrasion Resistance (ISO 11998:2006) ▶	Excellent
Max. Pot Life ▶	6h @ 20°C	Corrosion Resistance (Salt Spraying Chamber) ▶	1150h
Full curing ▶	7d @ 20°C	Density (ISO 2811-1) ▶	1.25±0.05 g/cm ³

Surface Preparation

Typical surface preparation procedure for application on compatible primers. Meeting the multiyear performance criterion requires prior application of EPA Epoxy Abrasive Resistant Primer. All work involving the application and use of this product should be performed in compliance with all relevant national Health, Safety & Environmental standards and regulations. Prior to use, obtain, consult and follow the Material Safety Data Sheet for this product concerning health and safety information. Read and follow all precautionary notices on the Material Safety Data Sheet and container labels.

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: 13-19
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

- 5L unit (Total 5L in two metal canisters | 4:1, A:B per volume)
- 20L unit (Total 20L in two metal canister | 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