

FGE Food Grade Epoxy

Product Description

Two component, high performance, food safe, epoxy coating. Ideally formulated for application in a vessel's holds for bulk transportation of food sensitive cargo (e.g. grains). Zero migration of food contaminants. FGE can be applied on top of protective coating system to ensure food safety standards.

Recommended Use

As a topcoat for vessel Cargo Holds. As a general protective lining for cargo carrying and ballast tanks. Contact NanoPhos Marine for the full Transferred Product List.

Film Thickness Per Coat

	Minimum	Maximum	Recommended
Dry Film Thickness (µm):	80	140	100
Wet Film Thickness (µm):	89	155	111
Coverage Rate (m ² /L):	11	6.4	9

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 ▶	Epoxy Polyamide	Touch Dry Time▶	30min @ 20°C
Components ▶	Base A & Hardener B	Dry Through Time ▶	8h @ 20°C
Color ▶	White / Grey / Red Brown	Full Curing ▶	10d @ 20°C
Thinner/ Cleaning Solvent ▶	NanoPhos Thinner A	Min. Recoat Interval ▶	6h @ 20°C
Mixing Ratio ▶	4:1, A:B per volume	Flash Point ▶	>23°C
VOC ▶	<250 g/L	Water Resistance ▶	Excellent
Solids (%vol.) ▶	90±3	Abrasion Resistance ▶	Excellent
Max. Pot Life ▶	6h @ 20°C		

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.

Non-Immersed Bare Steel: Power Tooling, St 3, Sa 2 where practicable. Reference standard: ISO 8501-1:2007.

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 Spraying ▶	Minimum pump: 30:1. Nozzle: 19-23
Brush ▶	Recommended application method only for stripe coating or small 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 5 liters in two metal canisters | 4:1, A:B per volume)
- 20L unit (Total 20 liters in two metal canisters | 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