

WANARMOR®EP141

General-purpose

Epoxy Paint

Product Description

WANARMOR®EP141 Universal Epoxy Paint is a two-component epoxy primer that can also serve as a topcoat, featuring exceptional abrasion resistance and high solids content.

Product Characteristics

Exceptional seawater resistance with excellent compatibility in cathodic protection systems. Provides superior adhesion to various substrates, including galvanized components, carbon steel, stainless steel, and aluminum. Wide application temperature range from 5 °C to 40 °C. Suitable for low-surface-preparation substrates and damp surfaces. Exceptional abrasion resistance and excellent compatibility with various topcoats, including epoxy, polyurethane, alkyd, chlorinated rubber, and single-component acrylic finishes.

Recommended Uses

A highly durable epoxy primer suitable for new construction or repair projects. It can be used as a standalone primer for ballast tanks and general ship surfaces, or as a base coat in other paint systems. It delivers outstanding corrosion protection in both freshwater and seawater environments.

Technical Specifications

Physical Parameters

Color	Gray
Gloss	Flat
Specific Gravity	Approx. 1.3 kg/L
Solids By Volume	62±2%
Theoretical Spreading Rate	10.3 m ² /L, DFT: 60 µm
Flash Point	35°C
VOC	354 g/L

Surface Preparation

Application Conditions: Substrate temperature must be at least 3 °C above dew point, with relative air humidity not exceeding 85%.

New Projects (New Steel): Surfaces must be free of oil, contaminants, and impurities. Sandblasting must

achieve ISO 8501-1:2007 Sa 2½ grade, with surface roughness meeting ISO 8503-2 Medium (G) standard.

Repair Projects: Remove loose contaminants such as oil from the surface. Sandblasting to Sa 2½ grade or manual cleaning to St 3 is recommended. Requirements may be appropriately relaxed for localized areas that are difficult to treat.

Application Guidance

Application Method

Airless spraying, brushing, rolling.

Mixing Ratio

Mass Ratio: 4.5 (Base): 1 (Hardener)

Pot Life: 2 hours at 20 °C

Hardener

CEP1410

Thinner

WANARMOR®TH003

Cleaning Agent : WANARMOR®TH003

Film Thickness

Film Thickness	
Wet Film	100 µm
Dry Film	60 µm

Drying Time

Surface Temperature	20°C
Surface Dry	2 hours
Hard Dry	5 hours
Fully Cured	7 days
DFT:30 µm	

Overcoating Interval

Product Name		0°C	10°C	20°C	30°C
General-purpose Epoxy Paint	Lowest	14 hours	9 hours	3 hours	2 hours
EP141	Highest	90 days	21 days	21 days	21 days

Ambient Temperature

5°C~40°C. Avoid application when relative humidity exceeds 85%.

Surface Temperature

Above the dew point by 3°C or more.

Recommended Method

Tools	Application Parameters
Airless Spray	Nozzle Pressure: 17.5Mpa Nozzle Size: 0.53-0.64 mm

WANARMOR®EP141 can be applied using airless spraying, roller coating, or conventional spraying.

Mixing and Thinning

WANARMOR®EP141 is a two-component product with a precise mix ratio. First, stir the Base until uniform and free of lumps for no more than 2 minutes. Then slowly add the hardener and stir for 3 minutes. Use a variable-speed power mixer. Avoid overmixing, as this accelerates curing and reduces product lifespan. High temperatures shorten the mixture's pot life, while low temperatures extend it. If necessary for application conditions, add a small amount of thinner (5% or less), subject to local regulations regarding volatile organic compounds (VOCs) and air quality.

Ventilation

For the safety of construction personnel and the proper performance of this product, all areas of the construction site must be well ventilated.

Packaging and Storage

Packaging

Two-component, 25 kg combination packaging.

Storage

Products must be stored in accordance with national regulations. Keep in a cool, well-ventilated area away

from heat and ignition. Containers must be kept tightly closed.

Shelf life

1 year

Safety Precautions

Warning

May cause eye and skin irritation. Vapors may cause respiratory irritation in sensitive individuals. May cause skin sensitization. Avoid breathing vapors. Avoid contact with eyes and skin. Use eye, ear, and skin protection, and wear an appropriate respirator to avoid potential respiratory irritation. After use, thoroughly wash skin with water. If discomfort occurs, consult a physician. Wash clothing before reuse. If breathing has stopped, perform artificial respiration, preferably mouth-to-mouth, and seek medical attention. Burns: Exothermic reactions may cause product to become excessively hot. Handle mixtures with caution. Wear gloves. First Aid: If product contacts eyes, immediately flush with water for at least 15 minutes. Remove contaminated clothing and shoes. Wash exposed skin with soap.

Before and during use, observe all safety labels on the packaging. Consult the Safety Data Sheet and comply with relevant national or local government safety regulations.

Statement

The information listed in this document is reliable. Each value provided is calculated as theoretical data based on the product formulation. Upon request, our company can disclose the internal standard measurement methods used to determine any of the above data. Since usage conditions are beyond the manufacturer's control, this information is provided without warranty. The product is intended for professional use only. For any inquiries, please contact our company.

Our Technical Support and Customer Service Center is available to provide consultation and application technical services regarding the product. We welcome your inquiries via mail or phone. National Customer Service Hotline: 400-059-1116 ext. 3.