

WANARMOR®EP256

Epoxy Thick-Film

Paint

Product Description

WANARMOR®EP256 is a high-solids, two-component epoxy coating specifically designed for severe corrosion environments. It forms a 100 µm dry film in a single application, significantly improving application efficiency. This coating provides long-term protection for substrates such as steel structures and concrete.

Product Characteristics

High-efficiency application, strong adhesion, with a hard, wear-resistant coating that withstands mechanical abrasion and impact, featuring low VOC content.

Recommended Uses

This product exhibits exceptional adhesion to substrates such as steel and concrete, effectively resisting corrosion from water, oil, chemicals, and salt spray. It is particularly suitable for long-term protection of heavy industrial facilities including petrochemical storage tanks, oil pipelines, bridges, and port machinery. Its single-coat thick application characteristic makes it ideal for maintenance projects with tight schedules, such as localized hull repairs.

Technical Specifications

Physical Parameters

Color	Venetian red, or as per customer requirements
Gloss	Flat
Specific Gravity	Approx. 1.5 kg/L
Solids By Volume	77 ± 2%
Theoretical Spreading Rate	7.7 m²/L, DFT:100 µm
Flash Point	25°C
VOC	235 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: 21.7 (Base): 3.3 (Hardener)

Pot Life: 1 hour at 20 °C

Hardener

CEP2560

Thinner

WANARMOR®TH003

Cleaning Agent : WANARMOR®TH003

Film Thickness

Film Thickness	
Wet Film	130 µm
Dry Film	100 µm

Drying Time

Surface Temperature	20°C
Surface Dry	45 minutes
Hard Dry	2.5 hours
Fully Cured	7 days

DFT:125 µm

Overcoating Interval

Product Name		0°C	20°C	30°C
Epoxy Thick-Film	Lowest	8 hours	2 hours	1.5 hours
Paint EP256	Highest	56 days	14 days	10 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: 25 MPa
	Nozzle Size: 0.43-0.64 mm

WANARMOR®EP256 can be applied using airless spraying, roller application, or conventional spraying.

Mixing and Thinning

WANARMOR® EP256 is a two-component product with a precise mix ratio. First, stir the Base until uniform and free of lumps for no longer 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.