

WANARMOR®EZ217

Epoxy Zinc-Rich Primer

Product Description

WANARMOR®EZ217 is a two-component epoxy zinc-rich primer specifically formulated for severe corrosion environments. It provides long-term corrosion protection for steel substrates through an electrochemical cathodic protection mechanism. The dense, abrasion-resistant coating is suitable for application directly as a corrosion-resistant primer on sandblasted steel surfaces.

Product Characteristics

Hard, wear-resistant coating film with excellent corrosion protection and superior coating performance.

Recommended Uses

Suitable for long-term corrosion protection of steel structures in harsh environments such as offshore platforms, port machinery, petrochemical storage tanks, and cross-sea bridges. Industrial equipment: Substrates requiring high-zinc protection, including containers, construction machinery, and oil pipelines. Repair and refurbishment: Rapid restoration and protection of rusted steel after sandblasting.

Technical Specifications

Physical Parameters

Color	Zinc Gray
Gloss	Matte
Specific Gravity	Approx. 2.3kg/L
Solids By Volume	55±2%
Theoretical Spreading Rate	13.7 m ² /L, DFT:40 μm
Flash Point	30°C
VOC	415 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, impurities, etc. 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: 9 (Base): 1 (Hardener)

Pot Life: 7 hours at 20 °C

Hardener

CEZ2100

Thinner

WANARMOR®TH003

Cleaning Agent:WANARMOR®TH003

Film Thickness

Film Thickness	
Wet Film	75 µm
Dry Film	40 µm

Drying Time

Surface Temperature	20°C
Surface Dry	30 minutes
Hard Dry	8 hours
Fully Cured	7 days

DFT:40 µm

Overcoating Interval

Product Name	10°C	20°C	30°C
Epoxy Zinc-Rich Primer	Lowest	8 hours	6 hours
EZ217	Highest	Extendable	Extendable

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: 15 MPa
	Nozzle Size: 0.43-0.58mm

WANARMOR®EZ217 can be applied using airless spraying, roller coating, or conventional spraying.

Mixing and Thinning

WANARMOR®EZ217 is a two-component product with a pre-determined mixing ratio. First, stir the Base until uniform and free of lumps, taking 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, 30 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.