

WANARMOR®EZ218

Epoxy Zinc-Rich Primer

Product Description

WANARMOR®EZ218 is a two-component epoxy zinc-rich primer that provides cathodic protection for steel.

Product Characteristics

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

Recommended Uses

Long-term corrosion protection for steel structures and coating applications on container production lines.

Technical Specifications

Physical Parameters

Color	Zinc Gray, Grayish Red
Gloss	Matte
Specific Gravity	Approx. 2.3 kg/L
Solids By Volume	55±2%
Theoretical Spreading Rate	13.7 m ² /L, DFT: 40 µm
Flash Point	33°C
VOC	418 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(Base)

Pot Life: 7 hours/20 °C

Hardener

CEZ2100

Thinner

WANARMOR®TH003

Cleaning Agent: WANARMOR®TH003

Film Thickness

Film Thickness	
Wet Film	75 µm
Dry Film	40 µm

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: 0.43-0.58 mm

WANARMOR®EZ218 can be applied using conventional or airless spraying. When using airless equipment, Graco 30:1 is recommended with a nozzle size of 0.43-0.58mm for optimal spray pattern. For optimal coating results, ensure equipment and fluid lines are clean and free of water or solvents. Achieve the correct, uniform film thickness with a recommended spray angle of 40° /70° . For roller application, use a new roller with short, fine pile.

Mixing and Thinning

WANARMOR®EZ218 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.

Drying and Recoating

Drying Time

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

Overcoating Interval

Product Name	10°C	20°C	30°C	40°C
Epoxy Zinc-Rich Primer	Lowest	8 hours	3 hours	2 hours
EZ218	Highest	Extendable	Extendable	Extendable

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.