

WANARMOR®EP253

Epoxy Glass Flake

Coating

Product Description

WANARMOR® EP253 is a high-performance two-component epoxy glass flake coating. Utilizing glass flake reinforcement technology, it forms a multi-layer shielding structure that effectively blocks moisture vapor, chemical media, and ion permeation. Its ultra-high volume solids content ensures high film thickness with a single application, significantly enhancing corrosion protection efficiency. Suitable for low-temperature environments, it combines mechanical strength with long-term corrosion resistance.

Product Characteristics

Excellent impermeability, wear and impact resistance, efficient application, low VOC.

Recommended Uses

Intermediate/topcoats for severely corrosive environments (chemical plants, marine applications); protective coatings for special operating conditions, etc.

Technical Specifications

Physical Parameters

Color	Gray, or as per user requirements
Gloss	Glossy
Specific Gravity	Approx. 1.3 kg/L
Solids By Volume	85 ± 2%
Theoretical Spreading Rate	4.3 m ² /L, DFT: 200 μm
Flash Point	35°C
VOC	179 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: 4 (Base): 1 (hardener)

Pot Life: 1 hour at 20 °C

Hardener

CEP2530

Thinner

WANARMOR®TH003

Cleaning Agent: WANARMOR®TH003

Film Thickness

Film Thickness	
Wet Film	250 µm
Dry Film	200 µm

Drying Time

Surface Temperature	20°C
Surface Dry	4 hours
Hard Dry	10 hours
Fully Cured	7 days

DFT:500 µm

Overcoating Interval

Product Name		10°C	20°C	30°C
Epoxy Glass Flake Coating	Lowest	8 hours	4 hours	2 hours

Highest	Extendable	Extendable	Extendable
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Ambient Temperature

10°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: 25MPa
	Nozzle Size: 0.64-0.79mm

WANARMOR®EP253 can be applied using airless spraying, roller coating, or conventional spraying.

Mixing and Thinning

WANARMOR®EP253 is a two-component product with a pre-determined mixing 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 required by application conditions, a small amount of thinner (5% or less) may be added, 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.