WANARMOR®EP300 Epoxy Static Conductive Anticorrosive Paint

Product Description

WANARMOR®EP300 is a light-colored, amine-cured two-component epoxy coating containing conductive additives. It exhibits long-term stable electrostatic dissipative properties and excellent resistance to various oils. The surface resistivity of the coating film ranges from 10^8 to 10^{11} ohms. This product complies with the surface resistance requirements specified in standard GB 50393-2008.

Product Characteristics

Static-dissipative and corrosion-resistant.

Recommended Uses

The interior walls of anti-static steel petroleum storage tanks are primarily used for storing crude oil, diesel fuel, and aviation jet fuel.

Technical Specifications

Physical Parameters

Paint Type/Pigment Type	Epoxy Resin/Conductive Mica
Color	Gray
Gloss	Semi-gloss
Specific Gravity	Approx. 1.4 kg/L
Solids By Volume	52±1%
Theoretical Spreading Rate	6.5m²/L，DFT:80μm
Flash Point	＞23℃
VOC	392 g/L

Surface Preparation

The maximum allowable concentration of water-soluble salts tested per ISO 8502-9 is 50 mg/m² (equivalent to NaCl). Surfaces must be dry and clean prior to use. Remove salts, detergents, and other contaminants by high-pressure freshwater washing. Clean off oils, greases, and other contaminants using appropriate cleaning agents.

Abrasive blast to minimum Sa 2½ (ISO 8501-1) / SP 10 (SSPC). Prior to final painting, all damaged shop primer and contamination incurred during storage and installation must be thoroughly cleaned by

mechanical/chemical means.
Maintenance and Repair: For small areas, do not use abrasive blasting; instead, clean manually or with power tools.
Roughness: Surface roughness Medium (G) (ISO 8503-2).

Application Guidance

Application Method

Airless spraying, brushing, rolling.

Mixing Ratio

Mass Ratio : 6.75(Base) : 1(Hardener)
Pot Life : 5 hours/25 ºC

Hardener

CEP3000

Thinner

WANARMOR®TH003
Cleaning Agent:WANARMOR®TH003
Thinner Usage:Airless Spray : ≤25%，Air spraying:≤50%，Brush Application:≤5%

Film Thickness

	Film Thickness
Wet Film	150μm
Dry Film	80μm

Recommended Primer

Self-priming or epoxy zinc-rich primer.

Surface Temperature

Above the dew point by 3℃ or more.

Recommended Method

Tools	Application Parameters
Airless Spray	Nozzle Pressure: 17.5MPa

	Nozzle Size: 0.53mm

WANARMOR®EP300 can be applied using airless spraying, brushing, or rolling. Adequate ventilation must be maintained during application in confined spaces. Avoid application in the presence of standing water or rain. When using airless spraying, a 0.53mm nozzle with an output pressure of 17.5 MPa is recommended to achieve optimal spray results.

Mixing and Thinning

WANARMOR®EP300 is a two-component product with a fixed mixing ratio. Each pail must be fully mixed before use. First, stir the base component until uniform, not exceeding 2 minutes. Then slowly add the hardener and stir for 3 minutes. Use a variable-speed power mixer. Avoid over-mixing, as this accelerates curing and reduces product shelf life. High temperatures shorten the mixture's pot life, while low temperatures extend it.

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℃
Surface (touch) dry	1h
Walk-on-dry	4h
Dried/cured to a usable state	7d

Drying and curing times are determined based on established film thickness ranges under controlled laboratory temperatures and relative humidity below 85%.
Surface (Touch) Dry: A state where light finger pressure leaves no fingerprint residue or tackiness. Loose dry sand scattered on the surface can be brushed off without adhesion or surface damage.
Walk-on-dry: The shortest time after application when the coating permits normal foot traffic without leaving permanent footprints, marks, or other physical damage;
Maximum Recoat Interval, Ambient Conditions: The maximum time interval before applying the next coat without any surface preparation;
Dry/Cured to Serviceability: The shortest time after application when the coating can be permanently exposed to a specific environment/medium.

Overcoating Interval

	0℃	10℃	20℃	30℃
Lowest	14h	9h	3h	2h

Highest	90d	21d	21d	21d

Packaging and Storage

Packaging

Two-component, 31 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.