

WANARMOR®PU368

Polyurethane Topcoat

Product Description

WANARMOR®PU368 is a two-component aliphatic polyurethane topcoat composed of high-performance polyurethane resin, weather-resistant pigments, additives, and Hardeners. When used in conjunction with epoxy, zinc-rich, and other primer/intermediate coatings, it forms a long-term corrosion-resistant system, making it particularly suitable for metal protection in the demanding environments of the petrochemical industry.

Product Characteristics

The paint film is dense and tough, offering excellent gloss retention and weather resistance.

Recommended Uses

Suitable for surface protection of petrochemical facilities, storage tanks, pipelines, and other metal structures exposed to outdoor environments for extended periods.

Technical Specifications

Physical Parameters

| | |
|----------------------------|------------------------------------|
| Color | White, or as per user requirements |
| Gloss | Glossy |
| Specific Gravity | Approx. 1.5 kg/L |
| Solids By Volume | 55±2% |
| Theoretical Spreading Rate | 11 m ² /L, DFT:50 μm |
| Flash Point | 33°C |
| VOC | 417 g/L |

Surface Preparation

Prior to application, the surface of the object to be coated must be free of grease, dust, moisture, and other contaminants, and must have an appropriate primer applied. To ensure the appearance of the paint film, the primer must be smooth and level, free of surface defects such as dry spray or orange peel.

Application Guidance

Application Method

Airless spraying, brushing, rolling.

Mixing Ratio

Mass Ratio: 27.34(Base) : 1.66(Hardener)

Pot Life: 2 hours/20 °C

Hardener

CPU3680

Thinner

WANARMOR®TH737

Cleaning Agent:WANARMOR®TH737

Film Thickness

| Film Thickness | |
|-----------------------|-------|
| Wet Film | 90 µm |
| Dry Film | 50 µm |

Drying Time

| Surface Temperature | 20°C |
|----------------------------|-------------|
| Surface Dry | 1.5 hours |
| Hard Dry | 4 hours |
| Fully Cured | 7 days |

DFT:50 µm

Overcoating Interval

| Product Name | | 10°C | 20°C | 30°C |
|----------------------|---------|-------------|-------------|-------------|
| Polyurethane Topcoat | Lowest | 9 hours | 6 hours | 3 hours |
| PU368 | Highest | Extendable | 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: 17.5 MPa |
| | Nozzle Size: 0.43-0.48 mm |

WANARMOR®PU368 can be applied using airless spraying, roller coating, or conventional spraying.

Mixing and Thinning

WANARMOR®PU368 is a two-component product with a precise mix ratio. First, stir the Base until uniform and free of lumps for no more 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, 29 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.