

WANARMOR®HT400

High-Temperature Resistant Paint

Product Description

WANARMOR®HT400 is an exceptional high-temperature resistant coating formulated from silicone resin, heat-resistant pigments and fillers, and special additives.

Product Characteristics

Withstands temperatures up to 400°C and offers excellent weather resistance.

Recommended Uses

High-temperature topcoat for boilers, chimneys, and heat exchangers; surface protection for steel structures such as metallurgical equipment and engine exhaust pipes.

Technical Specifications

Physical Parameters

Color	Gray
Gloss	Semi-gloss
Specific Gravity	Approx. 1.1 kg/L
Solids By Volume	42±2%
Theoretical Spreading Rate	10.5 m ² /L, DFT: 40 µm
Flash Point	26°C
VOC	610 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.

Thinner

WANARMOR®TH007

Cleaning Agent:WANARMOR®TH007

Film Thickness

Film Thickness	
Wet Film	100μm
Dry Film	40μm

Drying Time

Surface Temperature	20°C
Surface Dry	30 minutes
Hard Dry	2 hours
Fully Cured	7 days

DFT:40 μm

Overcoating Interval

Product Name	10°C	20°C	30°C
High-Temperature Resistant Paint	24 hours	18 hours	15 hours
HT400	Extendable	Extendable	Extendable

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
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Airless Spray

Nozzle Pressure: 18 MPa

Nozzle Size: 0.33-0.48mm

WANARMOR®HT400 can be applied using airless spraying, roller coating, or conventional spraying.

Mixing and Thinning

WANARMOR®HT400 is a single-component product. Mix until uniform and free of lumps, taking no longer than 2 minutes. Use a variable-speed power mixer. If required by application conditions, a small amount of thinner (5% or less) may be added, subject to local regulations regarding volatile organic compounds 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

Single-component, 20 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.