

Sino-Sina Building Materials Co., Ltd

KP-601 Reflective Thermal Insulation Coating

Technical Data Sheet

Product Overview

KP-601 Reflective Thermal Insulation Coating is composed of base materials, heat reflective functional materials, fillers, and additives. It achieves thermal insulation by efficiently reflecting sunlight, suitable for blocking solar heat in the 400-2500nm range, preventing surface heat absorption, and radiating heat via infrared to space for cooling effect.

Applicable Scope

- Building structures: Suitable for various brick-concrete buildings, grain silos, warehouse roofs and exterior walls; can serve as decorative exterior wall paint or energy-saving insulation coating.
- Industrial plants: Suitable for color steel tiles, steel structures, and other metal-based industrial plants, with dual decorative and energy-saving functions.
- Petrochemical industry: Suitable for various finished oil storage tanks, chemical storage tanks, warehouses, ships, containers, tank trucks, etc., addressing overheating from sun exposure and requiring insulation on object surfaces.

Product Features

- High thermal insulation performance: Solar reflectance 90%, near-infrared reflectance 93%.
- Self-cleaning performance: After water washing of stained coating, reflectance annual attenuation <1%.
- Color variety: High decorativeness, can achieve reflective thermal insulation in various colors, not limited to white or light colors.
- Spray construction: Simple and quick.

Performance Indicators

Detection Project	Technical Indicator
Paint State	Uniform system
Coating Appearance	Smooth, fine
Solar Reflectance Ratio	85%
Hemispherical Emissivity	85%
Near-Infrared Reflectance Ratio	80%
Stain Resistance	1
Constructability	Two-coat brushing without obstacles
Surface Dry Time	2h

Precautions

- If substrate is metal without coating or rusted, apply 1-2 coats of water-based rust-proof primer before reflective thermal insulation coating.
- If substrate is concrete or waterproof membrane, apply 1-2 coats of alkali-resistant sealing primer before reflective thermal insulation coating.

Construction Process

Use plastic bucket packaging, net weight 20kg/bucket, shelf life 12 months. Store in dry, ventilated indoor area, sealed, protect from moisture and freezing.

Contact Information

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