

005-603 Electricity-Free Cooling Leveling Compound

Technical Data Sheet (TDS)

Product Introduction

005 Electricity-Free Cooling Leveling Compound is specially developed for repairing and leveling concrete substrates and other uneven surfaces. The product offers outstanding filling performance, resists cracking even in thick applications, and has a low curing shrinkage rate, allowing it to quickly repair pits, voids, and damaged substrates. The cured film has strong adhesion and also provides thermal-insulation protection. It is used for leveling and repairing rooftops, floors, walls, and other substrates, simplifying substrate pre-treatment procedures, providing a smooth base for subsequent application of the electricity-free radiative cooling coating, and reducing its consumption rate.

Product Parameters

Item	Value	Standard
Appearance	Viscous white liquid	Visual inspection
pH value	7~10	GB/T 1717-2022
Relative density	1.0~1.2	GB/T 6750-2019
VOC content	<80 g/L	GB 30981.1-2025

Technical Specifications

Item	Value	Standard
Water resistance	≥72 h	GB/T 1733-1993
Alkali resistance	≥48 h	GB/T 9265-2009
Surface-dry time	≤3 h	GB/T 1728-2020
Hard-dry time	≤24 h	GB/T 1728-2020

Product Features

- Excellent filling: effectively fills substrate cracks, pits, and uneven defects to create a smooth, level base.
- Easy application: can be applied by spraying, roller coating, and other methods, making construction convenient.
- Long-lasting thermal insulation: excellent heat-blocking performance that effectively impedes external heat transfer, lowers substrate temperature, creates a cooler environment, and provides lasting insulation.
- Environmentally safe: water-based system, low VOC content, free of heavy metals.

Health, Safety & Environment (HSE)

- Construction protection: wear protective goggles, gloves, and a mask during application, and ensure good ventilation on site.
- Fire safety: this product is a water-based coating and is non-flammable.
- Waste disposal: waste generated during construction (such as paint residue and empty containers) should be collected and handed over to a qualified waste-disposal unit in accordance with local environmental regulations.

Construction Guide

- Substrate preparation: remove surface laitance, oil stains, and other contaminants. If mortar strength is too low, use 005 Penetrating Crystalline Interface Agent to reinforce the substrate;
- Viscosity adjustment: dilute with 0~5% water as needed for the application process to achieve suitable viscosity. Stir thoroughly and let stand for 10~15 minutes before use;
- Coating application: apply 1~3 coats; the amount used depends on substrate roughness, typically 0.5~1 m²/kg;
- Coating curing: cure naturally for ≥6 h (at 25° C, 50% RH; low-temperature/high-humidity conditions require a longer interval);
- Note: this section is a summary; please refer to the corresponding Construction Guide for detailed steps.

Packaging & Storage

- Packaging: 5 kg, 20 kg, or 25 kg.
- Storage: store in a cool, dry place at 5°C~35°C.
- Shelf life: 24 months (in original sealed packaging).

Attention

- This technical data is based on our current knowledge and experience and is accurate and reliable. However, since application conditions vary and are complex, the user is responsible for testing and confirming the suitability of the product before use.
- We assume no legal liability arising from this information.
- Product specifications are subject to change without further notice.

Contact Us

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