

005-602 Penetrating Crystalline Interface Agent

Technical Data Sheet (TDS)

Product Introduction

005-602 Penetrating Crystalline Interface Agent has strong penetrating properties, capable of penetrating into concrete to form dense crystals that seal micro-pores and fine cracks and stabilize loose substrates. As a high-quality primer material, it significantly enhances coating adhesion, providing both waterproofing and reinforcement. It is suitable for pre-treatment of various concrete substrates such as building walls, roofs, and floors.

Product Parameters

Item	Value	Standard
Appearance	Milky-white liquid with blue tint	Visual inspection
Non-volatile content	17.5%	GB/T 11175-2002
Minimum film-forming temperature	≤5° C	GB/T 11175-2002
pH value	8~10	GB/T 11175-2002
VOC content	≤80 g/L	GB 30981.1-2025

Technical Specifications

Item	Value	Standard
Tensile bond strength ratio	≥150%	JG/T 468-2015
Tensile strength retention after water immersion	≥80%	JG/T 468-2015
Surface-dry time	≤2 h	GB/T 1728-1979

Product Features

- Nano-penetration: penetrates deep into the substrate, achieving deep saturation and reinforcement.
- Curing & bonding: reinforces sanding and loose substrates, significantly improving the bond strength between waterproofing layers, mortar, and the base material, preventing hollowing and delamination.
- Easy application: can be applied on both dry and wet substrates; the film is water- and moisture-resistant once formed, and is suitable for pre-treatment of various concrete substrates.
- 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, dust, sand, oil stains, and other contaminants and loose debris; clear standing and surface water; control substrate moisture content and keep the surface dry. Porous or fast-absorbing substrates should be pre-moistened appropriately, and free water must not be present.
- Coating application: apply 1 coat, with a theoretical coverage rate of approx. 4~5 m²/kg;
- Coating curing: cure naturally for ≥6 h before proceeding to the next process step, until fully dry; (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: 20 kg or 50 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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