






CRYSTALLINE PENETRATING WATERPROOF COATING


CONSTRUCTION STEPS



1  **BASE SURFACE CLEANING**
基面清理

 **INGREDIENTS: 1-0.4KG ADD WATER AND STIR TO FORM A SLURRY**
配料: 加水搅拌呈浆料状态

3  **FIRST COAT OF WATER-PROOF**
第一遍涂刷

4  **SECOND COAT (AT LEAST 2 COATS)**
第二遍涂刷 (最少2遍)

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JISHAN REPAIR

CRYSTALLINE PENETRATING WATERPROOF COATING

This Crystlline Penetraing Waterproof Coating is a waterproof powder 1Kg powder mix 0.4kg water stirred evenly
"Suitable for waterproofing projects in bathrooms, kitchens, balconies, concrete roof, with all type pools etc.

*Also suitable use this waterproof powder mix water to repairing concrete slab cracks.

* This waterproof coating must apply on Rough concrete slab surface (Let it penetrate).

*Cannot be applied on smooth cement render surfaces.



- Deep Penetration
- anti-permeability and Moisture-Resistant

- Water and Mildew Proof
- Strong Self-Repair

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Product Description

Jishan Repair Cement-Based Crystalline Penetrating Waterproof Coating is a highly penetrating waterproof material composed of silicate cement, fine quartz sand, microfibers, and a variety of polymeric active chemical substances.
Mechanism of Action: The coating contains active substances such as aluminate, sulfate, and silicate ions, which use water as a carrier to penetrate through concrete cracks and capillaries. These substances react with free calcium ions in the concrete to form insoluble crystals that block cracks and capillaries, resulting in permanent waterproofing for the concrete structure. Even if the waterproof coating is damaged by external forces, its waterproof effect remains unaffected, thus achieving the goal of waterproofing, seepage prevention, and moisture resistance.

Scope of Application

Suitable for both the water-facing and back-side waterproofing of concrete buildings and structures. This includes applications such as basements, subways, bathrooms, kitchens, reservoirs, swimming pools, water storage facilities, culverts, tunnels, dams, reservoirs, power stations, nuclear power plants, cooling towers, bridges, pile foundations, and water retention ponds. It is also applicable for waterproofing repair and leakage maintenance of concrete structures.

Features

- Inorganic reactive material with the same lifespan as the structure, continuously provides crystalline reaction, and has multiple anti-seepage capabilities.
- Good flowability of active substances allows penetration and healing of cracks or capillaries up to 0.3mm wide and 300mm deep.
- Resistant to high water pressure, suitable for ultra-deep building waterproofing ($\geq 120m$).
- Increases the density of concrete and enhances the strength of concrete.
- Resistant to corrosion from acids, alkalis, and salts, remains effective even when damaged.
- Non-toxic and odorless, safe and environmentally friendly, can be directly applied to drinking water projects.
- Excellent anti-penetration properties and high adhesion strength, suitable for both the water-facing side and the back side to solve water leakage problems.

Precautions

- Use the material promptly after opening, and ensure the bucket is resealed immediately after pouring. Clean all tools with a solvent after use or if pausing during application. Maintain tools in good condition throughout the process.
- Keep the product dry during transportation, storage, and use. Avoid stacking uncovered outdoors.
- Wear proper safety gear during application, including a mask and goggles, to prevent the material from contacting your skin or eyes.

Instructions for Use

- Surface requirements: The substrate must be solid, damp, clean, and rough, free from mud, floating slurry, oil contamination, and without hollowing, loosening, or sanding phenomena. It is advisable to fully expose the concrete base.
- According to the environmental requirements, add a certain ratio of clean water and mix well until the mixture is a paste or cream consistency.
- Application methods: rolling (with a nap roller), brushing (with a stiff brush), or scraping.
- Apply multiple thin coats, with each coat applied every 12 to 24 hours. After each coat reaches the walking condition, mist with water to allow the active ingredients to penetrate fully.

Standard

GB 18445-2012

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产品说明

极细修补水泥基渗透结晶防水涂料是由硅酸盐水泥、精制石英砂、微细纤维和多种高分子活性化学物质复配而成的强渗透防水材料。
作用机理: 涂料中含有的铝酸根、硫酸根、硅酸根等活性物质, 以水为载体, 通过混凝土裂缝、毛细孔向内部渗透, 与混凝土中游离状态的钙离子反应, 生成不溶于水的晶体, 堵塞裂缝与毛细孔, 使得混凝土结构达到永久防水效果, 即使防水涂层受到外界破坏, 其防水效果也不受影响, 从而实现防水防渗防漏目的。

适用范围

适用于混凝土建筑物及构筑物的迎水面和背水面防水, 如: 地下室、地铁、卫生间、厨房、水库、游泳池、储水建筑、涵洞、隧道、大坝、水库、发电站、核电站、冷却塔、桥梁、桩基、蓄水池等。适用于混凝土结构防水渗漏维修。

产品特点

- 无机反应型材料, 与结构同寿命, 长久发挥反应结晶作用, 具备多次抗渗能力;
- 活性物流动性好, 可渗透愈合 0.3mm 宽、300mm 深的裂缝或毛细孔;
- 耐强水压, 可用于超深建筑防水 ($\geq 120m$);
- 增加混凝土致密度, 提高混凝土强度;
- 耐酸碱盐腐蚀, 破损不失效;
- 无毒无味、安全环保, 可直接应用于饮用水工程;
- 抗渗透性好、粘附强度高, 用于迎水面, 同样可用背水面, 来解决防水渗漏问题。

使用说明

- 基层要求: 坚实、湿润、干净、毛糙, 不含泥沙、浮浆、油污、无空鼓、松动、起砂等现象, 宜充分暴露混凝土基层;
- 根据使用环境要求, 加入一定比例清水, 搅拌均匀呈浆料或膏状;
- 涂刷方式: 滚涂 (毛滚刷)、刷涂 (硬毛刷)、刮涂;
- 多道薄涂, 每间隔 12h-24h 涂刷一次, 每道达到上人条件后应喷雾润湿, 使活性物质充分渗透。

注意事项

- 开封后的材料应尽快用完, 开封倒料后立即盖好桶盖, 施工完毕或中途停止使用材料时应采用清洗剂清洗好施工工具, 施工过程中应保持施工工具状态良好;
- 本产品运输、储存和使用中应注意防潮, 切忌无遮盖露天堆放;
- 施工时, 请做好劳保措施, 戴好口罩和护目镜, 以免材料沾染身体。

执行标准

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