

聚能液

混凝土的保护神

Deep Penetration Sealer

PROTECTOR OF CONCRETE



Provider of comprehensive solutions
for concrete disease control

© WhatsApp: +86-15373872353
🌐 Website: www.wcrete.com

Deep Penetration Sealer is a water-based penetrating crystal waterproof material (the advantage of water-based is that it can continue to react when there is water in the structural layer until the water is "absorbed". Its waterproof mechanism is to produce a chemical reaction with the free alkali in the concrete to generate a stable dendrite-like crystal colloid, which can effectively block the fine cracks and capillary voids inside the concrete, so that the concrete structure has a lasting waterproof function and better density and compressive strength. The penetration depth is 20-30mm, and it can also effectively prevent acidic substances, oil stains and motor oil from corroding the concrete.

一. 产品特点

Product characteristics

Deep Penetration Sealer is not only a concrete waterproofing material, but also a concrete protective agent: it can prevent freeze-thaw damage, alkali-aggregate reaction damage, concrete rust damage, concrete chemical erosion damage, salt freeze damage, concrete abrasion damage, concrete crack damage, concrete carbonization damage, and can also resist the damage and erosion of concrete by chloride ions.



二. 适用范围

Scope of application

1. It can be used for any concrete base (the concrete surface can be wet, but there must be no open water), such as basements, roofs, kitchens and bathrooms, bridges, tunnels, sewage pools and power plants.
2. It can be used for the reinforcement and maintenance of old concrete buildings, such as seaports, cross-sea bridges, cross-river bridges, water conservancy project dams, urban viaducts, high-grade highway bridges, railway bridges, tunnels, airport runways, plain concrete buildings, thermal power plants, nuclear power plants, sewage treatment plants, etc.
3. It is especially suitable for the protection of various concrete structures that are subject to seawater corrosion, salt spray corrosion, snow melting agent corrosion and freeze-thaw damage.



三. 性能指标

performance index

JC/T1018 "Water-based penetrating crystalline waterproof materials"

Sequence Number	Pilot Project	Performance Index
		II型
1	appearance	Colorless, transparent, odorless
2	density /g/cm ³ ≥	1.07
3	PH值	11 ± 1
4	Viscosity/s	11.0 ± 1.0
5	Surface tension/mN/m	36.0
6	Gel time/min (final setting)	≤400
7	Impermeability/Penetration height	≤35
8	Storage stability, 10 cycles	No change in appearance

四. 施工工艺

Construction technology

Ensure that the concrete base surface to be constructed is complete, clean and dense. After the entire concrete base surface is arranged, clean it and there should be no visible water on the surface (it is okay if the concrete base surface is damp). In order to achieve the purpose of uniform spraying, it is advisable to pop up a grid ink line about 2 meters wide on the wall, and spray a layer of deep Penetration Sealer on the entire concrete base surface, with a dosage of 3~5m²/kg.

五. 注意事项

Matters needing attention

1. It is strictly forbidden to add water or other substances to the deep Penetration Sealer waterproof material, and no other ingredients can be added;
2. When spraying the energy-gathering liquid, pay attention to the slow and uniform spraying speed to prevent leakage and over-spraying, so that the concrete surface is moist and water marks appear;
3. It is not suitable to carry out outdoor spraying on rainy days. If there is a large amount of water during the construction process, it is necessary to spray again. It is not suitable to carry out outdoor spraying in weather with wind force greater than level 5;
4. When spraying in a hot sun environment with a temperature above 35°C, sprinkle appropriate clean water to moisten the concrete surface to prevent excessive volatilization of the deep Penetration Sealer;
5. It is not suitable to construct when the temperature is below 0°C; when spraying the deep Penetration Sealer, a low-pressure sprayer can be used. High-pressure sprayers will cause waste.

六. 包装贮存

Packaging and storage

Packaged in plastic barrels, 20kg/barrel, stored in a cool and sealed place, shelf life is 12 months.