

# Cementitious Capillary Crystalline waterproof material

## 1. Product introduction

Cementitious Capillary Crystalline waterproof material of chemical active substances of penetration to concrete internal capillary channels through carrier, and free lime and water molecules react, formation of insoluble in water of crystallization, crystallization experience penetration into concrete deep, filling the pores and pore, and permanently in the concrete, concrete dense, prevent water infiltration channel, thus plays the role permanently sealed concrete.



## 2. Advantages

- ◇ Construction and concrete structure of the surface and back
- ◇ Especially suitable for wet base construction
- ◇ Permanent active, can naturally heal the fine cracks below 0.4mm
- ◇ Protection of reinforcement to prevent corrosion of steel
- ◇ Concrete structures can be protected from waste water, sea water, chemicals and solvents.
- ◇ Strengthen the strength of the concrete structure, prevent the destruction of concrete
- ◇ Due to its unique permeability, no protective layer should be set after construction.
- ◇ Non-toxic harmless, can be used for drinking water on the concrete structure
- ◇ Easy to use, simple operation, no construction joints

## 3. Application Range

- ◇ It is suitable for waterproof and anti seepage treatment of swimming pool, drinking water pool, sewage tank, marine aquarium, dam, reservoir and other storage tanks.
- ◇ Suitable for water proof and seepage prevention of water immersion environment, such as basement, underground water channel, elevator shaft, balcony, toilet, etc.
- ◇ It is suitable for waterproof engineering of Luqiao, tunnel, stadium, nuclear power plant, military facilities, municipal engineering and pile head treatment.



## 4. Key points of construction

- ◇ Scraping coating method  
Daniel waterproof coating base surface debris and mud mortar, concrete base for serious uneven repair. Cement based concrete structure anti greasy dirt on the surface of the water, debris to eradicate the

cleaning and washing with water, on the wet surface were brushing the construction waterproof material. If there are serious leakage detected, we should adopt plugging material construction, then use the material to ensure the quality of construction projects.

◇ Roll coating method

The material evenly brush in the face after treatment

◇ Dry method

After pouring the concrete, the construction shall be carried out immediately after compaction, and evenly spread on the surface of the concrete in accordance with the prescribed amount, and timely compacted and cast light.

In the case of exposure, should be sprinkler maintenance.

## 5. Matters need attention

◇ Normal temperature construction, should not be below zero degrees Celsius and rain, fog, sand and other harsh conditions under construction

◇ Mix the material water, conserve water to drink water for the best, should not use clean water

◇ Construction must be carried out in the concrete structure or solid cement mortar base surface. Do not apply directly to the fly ash layer surface, surface should be clean and free of dust and old film, dust and dirt and other debris to provide fully open capillary system, conducive to the formation of the product penetration and crystals

◇ Of all brushing the products of concrete, must carefully check whether there is a structural defect, such as template rod hole, crack, honeycomb shaped inferior surface, potholes, construction joints interface concave and convex inequality shall be repair chisel, cleaning, caulking, reinforcing, leveling treatment, waterproof construction of large area

◇ Bathroom construction of pipe joints shall be carried out by the special treatment, along the tube wall and the surface junction, chisel 10mm deep V type groove after sealing and waterproof base coating

◇ To ensure that the coating thickness and construction recommended dosage. Brushing method was adopted in the construction, if the stock is too thin, uneven stirring, secondary water, are easy to cause base powder or shell phenomenon

◇ Such as concrete components need to be filled, the construction of 36 hours before the fill wet soil, but can not be filled with dry soil in 7 days, to prevent its waterproof coating

## 6. Data Base Implemented standard: GB18445-2012

Item	Project		Performance index
1	Rate of water content/% $\leq$		1.5
2	Finenes, 0.63mm residue on sieve/% $\leq$		5
3	Construction property	After adding water and stirring	Scrape and coat without obstacle
		20min	Scrape and coat without obstacle
4	The wet surface adhesion strength/MPa, 28d $\geq$		1.0
5	Mortar Penetration resistance	Infiltration pressure ratio (with coating) (28d), % $\geq$	250
		Infiltration pressure ratio (removal of coating) (28d), % $\geq$	175

## 7. Storage and transportation

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Product storage, transportation, should be according to product type, models were stacked, not mixed, to prevent damp.

## 8. Reference Dosage

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About 1.5kg/m<sup>2</sup>.