

Cementitious Capillary Crystalline Waterproof Coating

Description

It is a cement-based powdery rigid waterproof material with special cement and quartz and active chemical materials. When brushing the base surface and contact with water, the active substances penetrate to concrete internal capillary channels through carriers, and react with free lime and water molecules to form insoluble crystallizations insoluble in water. It fills the deep concrete pores, capillary channel, and micro-cracks, which makes the concrete dense, prevents water infiltration channel and plays permanently sealed concretes.

Uses

Roads, railways, tunnels, subways, bridges, underground waterproofing and moisture-proofing projects, garages, reservoirs, ponds, caves, dams, swimming pools, sewages, etc. It can be used at the positive and dorsal side of concrete structures.

Features

- ♦ Excellent permanent and continuous waterproofing protection and penetrating capacity of the concrete surfaces above 5 cm
- ♦ Self healing ability for no more than 0.4 mm tiny fissures in concrete interior
- ♦ Breathable and waterproofing performance, effective against both positive and negative water pressure above 120 meters
- ♦ With other materials to form a rigid-flexible composite waterproof layer
- ♦ Non-toxic, environmental friendly



Technical Data: GB 18445-2001

No	Item	Index	
1	Appearance	Uniform, no caking	
2	Moisture content, % ≤	1.5	
3	Chloride content, % ≤	0.1	
4	Fineness, more than 0.63 sieve, % ≤	5	
5	Impermeability of mortar, 28days	Impermeable pressure ratio (coating), % ≥	250
		Impermeable pressure ratio(remove coating), % ≥	175
6	Flexural strength, 28days, MPa ≥	2.8	
7	Compressive strength, 28days, MPa ≥	15.0	
8	Wet base adhesive strength, 28 days, MPa ≥	1.0	
9	Adhesion strength on damp substrate, MPa ≥	0.5	
10	Setting time	Initial setting, Minutes ≥	20
		Final setting, Hours ≤	24
11	Breaking strength, MPa	7 days, ≥	2.8
		28 days, ≥	3.5
12	Compressive strength, MPa	7 days, ≥	12.0
		28 days, ≥	18.0
13	Impermeability pressure, MPa	28 days, ≥	1.2
14	Second impermeability pressure, MPa	56 days, ≥	0.8
15	Osmotic pressure ratio, % ≥		300

Yosaito Construction Materials Co. Ltd.

No.467, Changjiang Middle Rd., Huangdao District, Qingdao, China

Tel: +86 532 86107250, 86109320

Fax: +86 532 8610 7250 ext. 208

www.yosaito.com

info@yosaito.com

Packing

20kgs in pail or bags, or customized

Coverage

Recommended consumption two coats 2.0-2.5kg/ kg/m².

Application instructions

Surface Preparation: Substrates need to be clean, smooth, dry (Moisture <9%), no grit and free of sharp edges, loose or foreign materials, oil, grease and other materials that may damage the coating film. All surface voids greater than 5mm wide, shall be properly filled with an acceptable fill material and level it.

Application:

1. Put the powder into the water according to the ratio water to powder 3:1, starting slow stirrer stir until slurry without particulates.

2. Use coarse hair brush or roller to brush on the base directly, usually brushing 2 or 3 times to meet the design requirements. The time interval of each application is based on the last non-sticking coating, which is about 2 ~3h when the first painting shows dry and white.

◆ Powder-cover constructive application
Put 1kg powder on each square meters concrete surfaces equally where are not fully dry, then use wood float, polisher to press powder into concrete and do calendaring until achieve requirements.

3. Curing: Spraying water, covering wet materials and painting membrane curing liquid can be protecting methods. The protection period must more than 72 hours.

Precautions

- When the coating is dry, sprinkler maintenance at least twice a day for about 2 to 3 days;
- Avoid construct at high temperature and drying environment,;
- Do not construct on rain, wind day and construct under 5°C.
- Pay attention to waterproof layer;
- After adding water to slurry, promptly use up. The dried material will invalid after adding water again.

Storage

Recommended storage temperature is 5°C ~ 40°C; Stored in dry and ventilated conditions and avoid direct sunlight. Keep out of the reach of children.

Shelf life: 12 months

Keep containers covered when not in use.

Safety precautions

Personal protection: Irritation may result from prolonged or repeated contact with skin. Wear chemical resistant gloves, protective goggles and protective clothing if needed.

Eye contact: Rinse immediately with clean water for 15 minutes and seek medical advice.

Waste disposal: Empty containers must be disposed of in accordance with regulations. Reseal containers after use. Do not reuse containers for storage of consumable items.