



TECHNICAL DATA SHEET

PRODUCT NAME

Ouminglang inorganic water based penetrating waterproofing agent.

MANUFACTURER

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DISCRIPTION

OUMINGLANG is inorganic water based penetrating concrete waterproofing agent, it is a kind of alkali metal silicate solution as the base material, adding catalyst, additives, through mixed reaction and waterproofing agent. It has high permeability, can be directly used in the cement mortar, concrete structure surface, quickly penetrate into the internal reaction with the base material in the cement mixing content, generate insoluble gel, internal pore blocking, closed pore channels, increase the compactness, form a reliable permanent waterproof net, and can improve the mechanical strength of concrete structures, Make it has sealing waterproof moistureproof, wind erosion carbonization, acid and alkali erosion and other functions, protect steel from corrosion, prolong the service life of concrete.

TYPICAL APPLICATION

All concrete structure positive side and negative side surface, such as basement, rooftop, ground, wall, toilet, kitchen and balcony and other building parts, tunnel, bridge, pool, dam, reservoir, swimming pool, water conservancy power station, diversion channel, sewage treatment pool and other waterproof projects.

KEY BENEFITS

1. It can protect concrete; it is acid-resistant, alkali-resistant, corrosion-resistant, can resist temperature changes, and resists the damage and erosion of concrete by chloride ions.
2. No leveling layer is required during construction. It can completely penetrate into the concrete structure and does not require a protective layer.
3. The construction cost is low, the construction progress is fast, and no additional regular maintenance is required in the future.
4. It has deep penetration ability, the penetration depth can reach more than 50mm-500mm, and the anti-permeability grade reaches S11 or above.
5. It can resist temperature changes and increase the tightness of the concrete foundation by more than 20%, as well as the compressive strength of the surface of the concrete structure.
6. Permeable crystalline waterproofing materials are inorganic in nature, will not age and deteriorate, have stable effects, and have the same lifespan as concrete structures.
7. Due to the deep penetrating crystallization and water-based principles, traditional problems such as aging, loose overlapping, loose delamination, etc. will not occur.
8. It can play a good protective role on concrete, steel bars, etc.
9. Colorless, odorless, non-toxic, harmless and environmentally friendly, it can be used in drinking water pools, swimming pools and other related projects.
10. Traditional waterproof materials are in the form of surface or shallowly penetrating water beads; while penetrating crystalline waterproof materials are hydrophilic.
11. Penetration sealing: It can fully penetrate into the pores and fine cracks of the concrete surface layer to seal and protect the concrete.
12. Reinforcement and wear resistance: It can improve the pressure resistance, wear resistance and toughness of the concrete surface, and the concrete's resistance to cracking is improved.
13. Resistant to chemical erosion: It is resistant to all salt solutions and has strong resistance to acid and alkali gases and grease. It can effectively prevent acidic substances, oil stains and other dirt from eroding concrete.
14. Good durability: Due to its good UV resistance, tensile resistance, good adhesion, weather resistance and impermeability, it can achieve the purpose of improving the durability of concrete.
15. Easy construction: it can be sprayed when the temperature is above 0 degrees Celsius, and the next process can be carried out 24 hours after completion.
16. Green and safe: It does not contain any harmful substances and will not have any adverse effects on the human body, the environment, and concrete during production, construction, and use.
17. Inorganic materials: The crystals formed will not age and extend the service life of concrete.
18. Self-healing repair: It can self-repair new leakage points. It can still be activated when exposed to water many years later, producing new crystals to continue to compact small cracks, completing the self-healing process.
19. Harmless and environmentally friendly: It is a new environmentally friendly material that is non-toxic, odorless, non-flammable, formaldehyde-free, TVOC is far lower than the national standard, and does not harm human skin.
20. Reinforcement: Structural reinforcement. The structure after construction, because the

unhydrated cement is activated, enhances the density, and strengthens the concrete structure. Generally, after 7 days of spraying, the surface strength of the concrete can be enhanced by 15%-23%, forming a resistant structure grinding layer.

PRODUCT PROPERTIES

Liquid no color transparent odorless.

PH: 11.7

Boiling point: 100k

Melting point: 1088° C

Soluble in water

Viscosity: 11

Density : 1.16g/cm³

Non-toxic

Hazardous chemicals: Sodium Silicate

Percent non-volatile solids: 25%

APPLICATION

1, clean up the concrete and cement mortar surface sundries, such as floating ash to rinse as far as possible, delamination peeling to remove, obviously empty drum need water injection mud repair.

2, there are cracks first repair, 5 mm below the crack irrigation material, irrigation mud water, and then spray material twice; Cracks of more than 5 mm require grooves of 3 cm wide and deep, filled with cement and sand (1:3 ratio), compassed and pressed well.

3, there is no crack, the surface of the water first fully wet, water absorption fast place more water wet.

4, Clean up the water, spray the material evenly twice, and increase the amount of spraying where absorption is fast and where cracks are needed.

5, to be semi-dry surface, coated with a cement slurry.

6, After drying, spray the material again. Local absorption too fast place, need to add spray material.

7, about 12-20 hours after the water can be sprayed for maintenance, so that the residual materials on the surface as far as possible into the base.

8,use in temperature between +5° C to 40° C

9,new concrete structure can be applied after it poured, and waterproof effect will be better than after 28days

10, old building applied need to remove all decoration material and coating, then start the step 1.

APPLICATION RATES

Normally 1kg can use for 5sq meter concrete structure.

MAINTENANCE

Not required.

PRECAUTIONS

Avoid to spray on glass and aluminum.

EXECUTIVE STANDARD

DBJ01-01-54-2001 "Standard for quality inspection and evaluation of interface permeable waterproof coating" JCT1018-2006 TYPE II "Water-based Permeable Crystalline Waterproof material"

HEALTH NOTES

Eye Exposure - Severe irritation. Flush with large amounts of water. Skin - No known ill effects have been noted however, with chemicals, one should always avoid contact with skin.

SHELF LIFE AND STORAGE

3year.

Keep in cool place do not expose to sunlight. Keep good sealed after the drum opened.

PACKAGE

5KG and 25KG drum.

GUARANTEES

20years and application under OUMINGLANG approval.