
High Polymer Cementitious Waterproof Coating

Sinomaco Polymer Cement Waterproof Coating is a kind of cementitious coating or high polymer coating which comes in two part with nano liquid emulsion made of high-quality polymer emulsion like acrylate, ethylene-acetate, vinyl ester produced which was produced by BASF in Germany as the main raw material, and high polymer powder mix. This cementitious waterproofing coating is a two component cement based waterproof coating which is produced by mixing the synthetic organic liquid material and inorganic powder material in scientific formula and production process. After mixing with polymer cement in the ratio of 1:1, it can form a very good liquid waterproofing cementitious coating which can be brushed, roller applied or scraper applied to any place for the function of waterproofing. It is particularly suitable for indoor and outdoor waterproofing projects such as kitchen waterproofing, bathrooms waterproofing, balconies waterproofing, water pools waterproofing, and external walls waterproofing. It can also be used for underground waterproofing projects such as basements, underground garages, air-raid shelters, underground tunnels, and subway culverts.

Product Feature

1. Fast curing, good elasticity, and good water resistance after the coating is dry, and it can be directly applied on the wet and dry base surface.
2. Cold applied construction which is easy to operate can reduce the construction period and makes it easy to be maintained. Environmentally friendly, cause the coating is non-toxic, odorless, and non-polluting.
3. Excellent performance in strong adhesion, toughness, water resistance, weather resistance, anti-corrosion, aging resistance, durability and strong adhesion to the base.
4. Various kind of colors are available for customers demand which makes a beautiful appearance.

Application Scope

1. Suitable for hydropower projects, dams, tunnels, bridges, ponds, water towers, purification pools, reservoirs, swimming pools and other waterproof projects with high permeability and pressure resistance.
2. It is suitable for filling leaks and cracks by mixing this product with water, cement, etc. to form a paste, and then fills, repairs, and plugs leaks through the gaps and cracks in the through-holes.
3. According to different working demands, different kind of models (Type I, Type II, Type III) can be choose. Type I is suitable for floor base with large amount of activity, Type II and Type III are suitable for floor base with smaller activity.

Working advice

1. Add as suitable water as possible when painting to avoid flowing or dripping.
2. Do not construct in the rain day so the film formation can not be affected. Never allow rain and people to walk before the waterproof layer has cured.

3. The thickness of the coating should be uniform to avoid delamination, cracking, bubbles, wrinkles, or pile-ups.

Transportation & storage

1. Tightly sealed and placed it in a clean, ventilated and dry warehouse to avoid direct sunlight. If the storage period exceeds, it can be re-inspected to ensure its qualification.

2. Be ensure that the packaging is intact, and keep the coating away from collision, extrusion, rain, and freezing during transportation.

Performance Test Report

| Performance Test Report | | | | | |
|---|-----------------------------------|--|-----------------|-------------|-----------------|
| S/N | Test Item | | Technical Index | | |
| | | | I | II | III |
| 1 | Solid content | | ≥ 70 % | ≥ 70 % | ≥ 70 % |
| 2 | Tensile Strength | Without treatment | ≥ 1.2 Mpa | ≥ 1.8 Mpa | ≥ 1.8 Mpa |
| | | Retention rate after heat treatment | ≥ 80% | ≥ 80% | ≥ 80% |
| | | Retention rate after alkali treatment | ≥ 60% | ≥ 70% | ≥ 70% |
| | | Retention rate after water soaking treatment | ≥ 60% | ≥ 70% | ≥ 70% |
| | | Retention rate after UV treatment | ≥ 80% | - | - |
| 3 | Elongation rate at break | Without treatment | ≥ 200% | ≥ 80% | ≥ 30% |
| | | Retention rate after heat treatment | ≥ 150% | ≥ 65% | ≥ 20% |
| | | Retention rate after alkali treatment | ≥ 150% | ≥ 65% | ≥ 20% |
| | | Retention rate after water soaking treatment | ≥ 150% | ≥ 65% | ≥ 20% |
| | | Retention rate after UV treatment | ≥ 150% | - | - |
| 4 | Low temperature flexibility ø10mm | | -10℃,No crack | - | - |
| 5 | Bond strength | Without treatment | ≥ 0.5Mpa | ≥ 0.7Mpa | ≥ 1.0Mpa |
| | | Moisture base | ≥ 0.5Mpa | ≥ 0.7Mpa | ≥ 1.0Mpa |
| | | Alkaline treatment | ≥ 0.5Mpa | ≥ 0.7Mpa | ≥ 1.0Mpa |
| | | Water soaking treatment | ≥ 0.5Mpa | ≥ 0.7Mpa | ≥ 1.0Mpa |
| 6 | Watertightness 0.3Mpa,30min | | Impermeable | Impermeable | Impermeabl e |
| 7 | Impermeability (mortar surface) | | - | ≥ 0.6Mpa | ≥ 0.8Mpa |
| Note: Production Standard: GB/T23445-2009 | | | | | |

Product link : <https://www.sinomaco.com/?p=1249>