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BD-UEA expansion agent

product description

BD-UEA expansion agent encounters water and chemically reacts with cement mineral components. The product of the reaction is calcium sulfoaluminate (ie ettringite) or calcium hydroxide, iron hydroxide, etc., which cause volume expansion effect. A certain pre-stress is generated under the restraint of steel bars and adjacent positions to prevent harmful cracks, compensate for shrinkage, and absorb a certain amount of heat of hydration. The reactants produced can fill and block capillary voids, increase the compactness of concrete, and improve impermeability. Sex. All performance indicators of the product meet the requirements of the GB23439-2017 quality standard.

Use range

BD-UEA high-efficiency concrete expansion agent can be used for all concrete projects and cement products that require anti-cracking, anti-seepage, joints and filling.

Especially suitable for:

1. Underground buildings, such as courtyard subways, underground parking lots, underground garages, tunnels and mines, civil air defense projects, underground sidewalks, airports, etc.
2. Construction of pools, swimming pools, sewage treatment pools, water towers, oil tanks, etc.
3. Self-waterproof rigid roof Yao mortar moisture-proof layer remote
4. The anchorage of the prefabricated components Yao frame structure joints Yao pipeline joint Yao structure after pouring the joints and backfilling Yao rock foundation grouting material.
5. Cement products, cement pressure pipes, waterproof roof panels, etc.
6. Highway pavement, bridge concrete surface, culvert.

Product Features

Low alkali content can effectively prevent concrete alkali-aggregate reaction, low dosage, good expansion performance, good adaptability to cement and additives, no corrosion to steel bars, no pollution to water quality, and good sulfate resistance.

Precautions for use

1. The mix ratio design of concrete mixed with BD-UEA high-efficiency concrete expansion agent should meet the technical indicators such as strength, expansion performance, impermeability, durability and construction workability requirements required by the design.
2. Expansion dosage is based on the design requirements to limit the expansion rate using engineering materials, and is determined by mixing ratio inspection.
3. Recommended dosage: 10% of the cementitious material (incorporated), 10-12% in the compensating shrinkage concrete, 12-15% in the filling of post-pouring belts, expansion reinforcement belts and engineering joints.
4. During construction, ensure that the shrinkage compensation concrete is prepared according to the design requirements of the mix ratio to ensure the accuracy of the expansion agent content.
5. The mixing time of on-site concrete is 30s longer than that of ordinary concrete to ensure that the expansion agent, cement and water reducer are mixed evenly and improve its homogeneity.

Packaging and storage

This product is packed in an inner woven bag with a weight of 50kg/bag

The storage period is six months under dry conditions.