

弹性砼- 聚氨酯基

Elastic concrete - polyurethane-based

适用于高速公路、桥梁伸缩缝、机场跑道、市政
窨井盖等工程的铺装及快速修补



Provider of comprehensive solutions for
concrete disease control

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Elastic Concrete-Polyurethane Based is a three-component polymer material consisting of a two-component polyurethane cooler with a special gravel aggregate, and is a 100% solids material suitable for outdoor construction environments. It is a special mixture that firmly bonds bridge expansion joints to the subgrade, cement and soil to asphalt concrete, etc. to form a sealed waterproofing system. It is capable of absorbing traffic loads and spreading them evenly to the roadbed, and also elastically expands and contracts with the heavy pressure of the roadway. It is resistant to ozone, frost and chemicals as well as mechanical abrasion, and does not require heating to enhance its fluidity or heat maintenance.

产品特性

Product features

- ◆ Available in black and grey, it matches the color of the pavement concrete, eliminating visual fatigue caused by color differences.
- ◆ Easy to apply, cold-mix construction, no need to heat the construction and maintenance.
- ◆ Flexible, wear-resistant, impact-resistant and aging-resistant.
- ◆ 100% solid content, fast curing
- ◆ Stable performance, water resistant material, 100% waterproof.



适用范围

Scope of application

- ◆ Repairing of airport runways with nibbled edges, dropped corners, potholes and grooves.
- ◆ Bridge expansion joint groove, municipal manhole cover rapid repair;
- ◆ Highway parking lot, toll station, gas station pavement and fast repair;
- ◆ Highway and municipal bridge pavement and quick repair.
- ◆ Waterproof leveling layer of assembled buildings and other places that require the use of gap-filling materials.



性能指标

Performance metrics

Testing items		Technical index
Compressive strength(MPa)	1d	≥20
	7d	≥23
Flexural strength(MPa)	1d	≥8
	7d	≥10
Tensile strength(MPa)	7d	≥1.8
Elongation at break(%)	7d	≥100

施工工艺

Construction process

I. Construction preparation:

- ① Concrete base must be clean (free of dust, paint, rust, grease, floating paddle and other debris), structurally sound.
- ② Horizontal and vertical construction surface treatment methods include sandblasting, picking and chiseling and other proper on-site techniques. The most reliable type of sandblasting is recommended, and acid etching is not acceptable.
- ③ Deteriorated concrete substrates that are loose, fragile, broken, deteriorated, and or delaminated should be chiseled away until complete, good-quality concrete is exposed, and the deteriorated concrete should be repaired prior to the use of this product.
- ④ For concrete substrates with structural cracks, the cracks should be repaired in advance with epoxy resin grouting adhesive
- ⑤ For newly poured concrete, a normal curing period of not less than 14 days is required.

II. Construction Guidelines:

- ① Before construction of the product, apply special matching primer on the prepared concrete surface, when applying primer, there should be no water on the base layer, the primer can be applied by brush or roller, and lay it before the primer dries
- ② Mix component B separately and thoroughly in advance (30s), and then pour all the component B into a clean 30L container. Add component A and mix with an electric mixer with a slurry blade for about 30S until completely mixed (uniform and consistent color).
- ③ Roll the package of component C for 2-3 weeks before it is opened, then slowly add aggregate to the liquid material and mix until it is covered by the liquid (about 3min). Pour the mixture into the groove gap where the primer has not dried, scrape and trowel the material with an edge mud knife and vibrate it properly, and finally close the surface.

III. Material mixing ratio.

a:b:c=1:1:8.8

注意事项

Precautions

- ① Used in the environment below 20 °C, the curing speed will have a tendency to become slower
- ② For detailed health, safety and environmental advice, please consult and follow the terms of the product MSDS.

包装贮存

Packaging and storage

Component AB is packed in drums, 5kg/drum, and component C is packed in bags, 50kg/bag; it should be stored in sealed containers above 5°C with a shelf life of 12 months.