

Pervious Concrete Binder 透水砼胶结剂

会“呼吸的”海绵城市景观路面
有效缓解城市热岛效应

SPECIAL SEALANTS FOR
RUNWAY EXPANSION JOINTS



Provider of comprehensive solutions for
concrete disease control

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Product introduction

Pervious concrete binder is the core material in pervious concrete.

Pervious concrete is a kind of porous lightweight concrete made of crushed stone, cement, binder, pigment and water, which does not contain fine aggregate, and is bonded to each other by a thin layer of cement slurry covering the surface of coarse aggregate to form a honeycomb structure with uniformly distributed holes, so it is characterized by air permeability, water permeability and lightweight, and as an environmentally friendly load-reducing concrete, the research and development of pervious concrete is receiving more and more attention.



1. Pervious concrete pre-construction material preparation

Stone: the project low local procurement, clean uniform particle size of a single level of matching stone. Cement: Procurement of silicate cement above 42.5 grade near the project site.

● The following materials are provided by Sino-sina: [Permeable concrete binder]: Packaging (20kg/bag) Admixture: 8-10kg/m³ High water permeability, high bearing capacity, decorative effect, easy maintenance, resistance to freezing and thawing, high heat dissipation [Color pavement pigment]: Packaging (25kg/bag) Admixture: 6-10kg/m³

1. good dispersibility. 2. excellent light and weather resistance. 3. acid resistance. 4. water resistance. 5. solvent resistance. 6. resistance to other chemicals. 7. alkali resistance. 8. good coloring rate, no bleed-through or migration.

● Permeable concrete surface sealer]: Packing (20kg/bucket) Recommended dosage is about 0.2kg/m² can effectively improve the durability of permeable concrete surface and beautify the effect of adjustable color, construction is simple, the use of airless sprayer for spraying. It can also be used for sealing the surface layer of embossed floor and beautifying the surface layer of other floors. Advantage of surface sealer: Pervious floor surface sealer has the advantages of high weather resistance, high wear resistance, bright color, etc. It is suitable for all kinds of pervious concrete construction.

2. Pervious concrete practice, construction steps

[Mixing]: The viscosity of the cement paste in the pervious concrete mix is relatively large and small, in order to facilitate the cement paste can be evenly wrapped in the aggregate, it is appropriate to use a forced mixer, mixing time is more than 5 minutes.

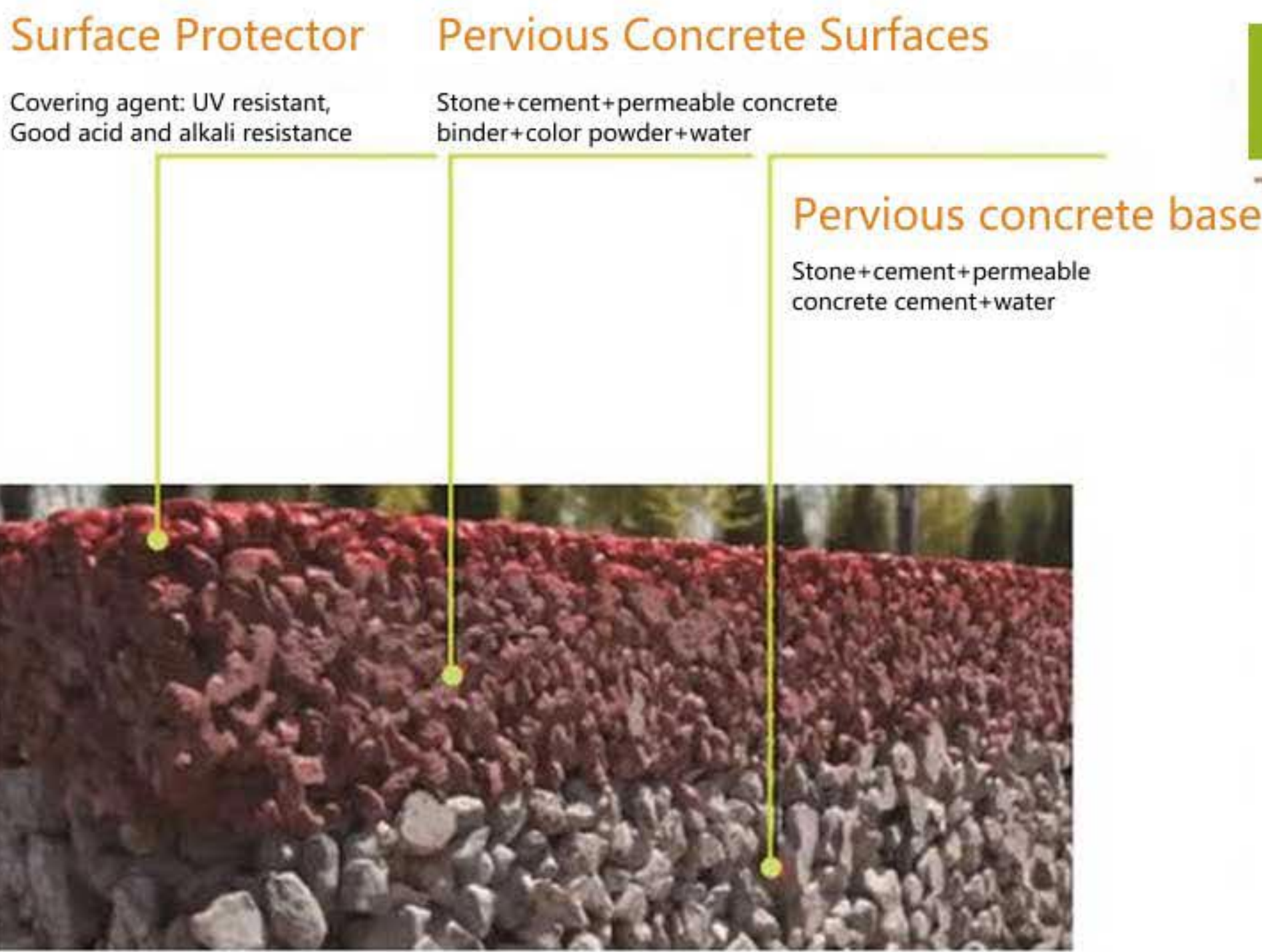
[Pouring]: Before pouring, the roadbed must be wet with water. Otherwise the rapid loss of water from the pervious concrete will reduce the bond strength between the aggregates. As the churned material is dry and hard, the churned pervious concrete material can be paved on the roadbed.

[Vibrating]: It is not suitable to strongly vibrate and tamp during the pouring process.

[Rolling]: After vibration, solid steel pipe or lightweight roller should be further used to compact and flatten the pervious concrete churn, taking into account the consistency of the churn and the surrounding temperature and other conditions, it may need to be rolled several times, and the roller must be cleaned up before rolling to prevent bonding of aggregates.

[Maintenance]: Due to the presence of a large number of holes, easy to lose water, dry quickly, so the maintenance is very important. Maintenance is very important.

[Finished product]: The wet maintenance time of permeable concrete is not less than 7 days, and finally spray a layer of special sealer for permeable concrete, so that its visual effect tends to be perfect.



Scope of application

- Sidewalks and bicycle paths
- Ground cover in neighborhoods
- Landscaped pathways and town squares
- Swimming pool sidewalks and stadiums
- Community fire lanes and lightweight paths
- Golf Course Tramway
- Outdoor parking lot