Permeable Concrete Binder

Eco-friendly binder for pervious pavement systems

Product Description

Permeable Concrete Binder is a specialized cementitious binder for producing pervious pavement. Combined with graded aggregates, cement and water, it forms a high-strength porous concrete that enables rapid infiltration, reduces surface runoff, and supports groundwater recharge. The system provides durable, ecological pavements for sidewalks, plazas, parking lots, bicycle lanes and landscape roads.

Key Features & Benefits

• High permeability – rapid rainwater infiltration and effective drainage.

• Eco performance – mitigates urban flooding and heat island effect.

• Strong bonding – durable, crack■resistant pavement structure.

• Versatile use – sidewalks, plazas, parking lots and landscape roads.

Scope of Application

• Pedestrian walkways, sidewalks and bike lanes.

• Parks, plazas, leisure squares and landscape pavements.

• Parking lots and residential community roads.

• Outdoor ecological pavements requiring permeability.

Performance Guidelines

Recommended Mix Ratio (per m^3 aggregate)	Dosage / Notes
Cement	200 kg (≈ 8–10 kg/m^2)
Permeable Concrete Binder	25 kg per bag (≈ 8–10 kg/m^2)
Aggregate (graded 5–20 mm)	1,500–1,700 kg
Water–binder ratio	0.25 – 0.30

Construction Process

• Prepare compacted, clean and damp substrate.

• Mix cement, binder, aggregate and water until uniform.

• Place mixture evenly and compact with vibrating screed or roller.

• Finish with trowel/finisher to ensure uniform pore structure and strength.

• Cure with plastic cover and water spray for at least 7 days.

Packaging & Storage

• 25 kg moisture■proof composite bags.
• Shelf life: 6 months in dry, ventilated storage.
• Store away from moisture and direct sunlight; reseal opened bags.

Disclaimer

The information in this Technical Data Sheet is based on laboratory tests and field applications and is provided in good faith. Sino-sina Building Materials Co., Ltd. makes no warranty for results obtained under conditions beyond its control. Users should verify suitability through site trials before large-scale application.