



FSA101 – Mortar (Concrete) Waterproofing Agent

Crystalline Waterproof Admixture for Mortar & Concrete

Product Description

FSA101 Mortar (Concrete) Waterproofing Agent is a high-performance crystalline admixture that reacts with free lime and hydration products to form stable crystals. These crystals block pores and microcracks in mortar and concrete, significantly enhancing impermeability, anti-seepage and durability. It is suitable for industrial and civil waterproofing projects, including basements, tunnels, reservoirs, pools and retaining structures.

Key Features & Benefits

- Enhances impermeability by blocking pores and capillaries.
- Improves durability and resistance to seepage and leakage.
- Increases bonding strength and reduces shrinkage cracks.
- Suitable for both new construction and repair projects.
- Easy to use with standard mixing and application process.

Scope of Application

- Basements, tunnels, reservoirs, culverts and dams.
- Pools, water treatment structures and retaining walls.
- Underground works, elevator pits and bridge decks.
- Repair and maintenance of existing waterproof layers.

Performance Parameters (per JC/T 474-2008)

Test Item	Requirement
Setting time (initial)	≥ 45 min
Setting time (final)	≤ 10 h
Compressive strength ratio (7 d)	≥ 100%
Compressive strength ratio (28 d)	≥ 90%
Impermeability pressure ratio	≥ 300%
Water absorption ratio (48 h)	≤ 65%
Water absorption ratio (28 d)	≤ 125%

Construction Process

- Substrate preparation: ensure base is sound, clean, moist but not waterlogged.
- Mix ratio (by weight): cement : sand : FSA101 = 50 : 50 : 1; water–cement ratio approx. 0.5–0.6.
- Apply mortar waterproofing layer 15–20 mm thick on vertical surfaces (two coats); horizontal surfaces 15–30 mm.
- Cure surface under humid conditions for at least 7 days.
- For cracks >3 mm: cut open and fill with FSA101 mortar; for microcracks: brush with slurry (cement : FSA101 = 1 : 0.3).

Packaging & Storage

- Supplied in 25 kg moisture-proof composite bags.
- Shelf life: 12 months in unopened bags under dry, ventilated storage.
- Protect from rain, sunlight and stacking pressure.
- Opened bags should be used promptly.

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 on-site testing before large-scale application.