

Aquaflex KS-100X

Bionic Fiber Waterproof Mortar



Product Description

KS-100X biomimetic fiber waterproof mortar is a novel composite waterproofing material developed using technology that employs high-strength fibers to enhance internal cohesion; specifically formulated with anti-crack fibers, the product effectively boosts the coating's compressive and flexural strength.

Where To Use

- Waterproofing and moisture-proofing for indoor kitchens, bathrooms, balconies, and floors;
- Waterproofing for the water-facing and non-water-facing sides of underground structures;
- Waterproofing for fire-fighting reservoirs, landscape ponds, water channels, and dams.

Recommend Usage

1.5~2.0kg/m² for 1mm-thickness film

(Note: The data belongs to the calculation of standard experimental environment and is for reference only. The actual amount should be calculated according to the site base surface.)

Product Features

- Utilizes high-strength fiber technology to reinforce internal cohesion and incorporates anti-crack fibers;
- Rapid strength development results in a more robust waterproof coating, effectively preventing tile detachment caused by waterproofing layer failure;
- The cured coating develops a textured surface that promotes strong adhesion;
- Enhanced performance characteristics include high flexural and compressive strength as well as excellent impact resistance;
- Effectively prevents coating cracking and ensures a long service life.

Construction Procedures

Surface cleaning → wetting the substrate → preparing the waterproofing coating (liquid component : powder component = 1 : 2.77) → reinforcement treatment at critical points → large-area application of the waterproofing coating → inspection and acceptance.

Packaging

34 kg/set

(Liquid component : Powder component = 9 kg + 25 kg)

Technical Data Based For Reference

Implemented standard:JC/T984-2011

Item			Index
			Type II
Setting time	The initial setting/min≥		45
	The final setting/h≤		24
Impermeability pressure/MPa	Coating≥	7d	0.5
	Mortar≥	7d	1.0
		28d	1.5
Compressive strength MPa ≥			24
Flexural strength / MPa ≥			8.0
Flexibility (transverse deformation capacity) / mm ≥			1.0
Adhesive strength / MPa ≥	7d		1.0
	28d		1.2
Alkali resistance			No cracking or peeling
Heat resistance			No cracking or peeling
Frost resistance			No cracking or peeling
Shrinkage/% ≤			0.15
Water absorption/% ≤			4.0

Storage And Transportation

- This product is non-flammable and non-explosive; it can be transported via standard methods. During transport, protect the product from rain, direct sunlight, freezing temperatures, and packaging damage.
- Store the product in a cool, dry place between 5° C and 35° C, avoiding exposure to sunlight and rain.
- Take moisture-proof measures if the relative humidity exceeds 85%.
- Under normal storage and transport conditions, the product has a shelf life of at least 6 months from the date of manufacture.

Important Notes

When working in a confined space, it is necessary to maintain ventilation or implement appropriate protective measures.