

AQUAMIX 101

CEMENTITIOUS CRYSTALLINE CONCRETE WATERPROOFING ADMIXTURE



DESCRIPTION

Aquamix 101 is a cementitious waterproofing admixture treatment for the waterproofing, protection and durability of concrete through crystallization process.

Aquamix 101 waterproofing admixture consists of selected and mixture of Portland cement, active chemicals, and proprietary additives. These active chemicals react with the moisture and the by-products of selected cement in fresh concrete, a non-soluble crystalline will be generated throughout the capillary tracts and pores in the concrete. This crystallization process permanently seals the concrete and static cracks up to 0.4mm and impervious to water or aggressive chemicals from any direction.

RECOMMENDED FOR

Foundations, Basements, Podium Decks, R.C. Roof, R.C. Retaining Wall, R.C. Water Tank, Swimming Pools, Roof Gardens, Tunnels and Subway structures, Reservoirs, Sewage and Water Treatment Plants.

DOSAGE

- Dosage of Aquamix 101 is 1% - 1.5% by weight of total cementitious content.
- Consult with CKS Technical Department or representative for assistance in determining the appropriate dosage rate according to specific requirements and conditions of your project.

ADVANTAGES

Non-toxic, approved for potable water use, highly resistant to aggressive chemicals, resists hydrostatic pressure from any directions, can seal static cracks up to 0.4mm, reduces construction scheduling time, improves durability of concrete, allows concrete to breathe, permanent.

APPLICATION PROCEDURES

Aquamix 101 can be added to the concrete either in concrete plants or concrete mixing trucks as per recommended dosage specification.

• Batching Plant

In concrete batching plant, it is recommended that the dosage ratio of **Aquamix 101** in powder form added lastly into the concrete after discharging of cement, sands, aggregates and water should be batched and mixed in accordance with standard procedures.

• Concrete Mixing Truck

Aquamix 101 can be added directly into the concrete mixing truck as dry powder form or mix **Aquamix 101** in a container with the recommended ratio of 1 part of water and stir with an electrical mixer slowly while adding 2 parts of powder until a slurry is achieved. The slurry is then poured into the concrete mixing truck; it shall be mixed well by rotating the concrete mixing drum for 10-15 minutes. Pour within 30 minutes into concrete mixing truck.

• Construction and Expansion Joints

We recommended installation of either **Aquastop SW** or **Aquastop PVC** water-stop to all construction and expansion joints prior to concreting.

Please consult with CKS Technical Department or representative for assistance in determining the selection of water-stop according to specific requirements and conditions of your project.

PACKAGING

Aquamix 101 is available in 25kg/pail

SETTING TIME AND STRENGTH

The setting time of concrete can be affected by temperature of concrete, climate conditions, chemical and composition of ingredients. Concrete treated with **Aquamix 101** may results higher strength than untreated concrete. Therefore, trial mixes based on concrete design mix should be carried out according to conditions of your project to determine the setting time and strength of the concrete.

CURING

When concrete has hardened, proper curing process is essential to achieve the optimum growth of the crystallization of **Aquamix 101**.

TECHNICAL SUPPORT

For more information, alternative applications methods or alternative proposals, please contact our Technical Department at the email address below.

STORAGE

Aquamix 101 must be stored in cool and dry place. Shelf life is 24 months from date of production.

LIMITATION

Not recommended for dosing during rainy days.

CLEANING

Clean all tools and equipment with water and housekeeping immediately after completion.

SAFETY PRECAUTIONS

We recommended use of protective gloves and goggles when handling this product. If there is contact with eyes and skin, wash immediately with plenty of water and seek medical assistance immediately.

TECHNICAL DATA

No.	ITEM	TEST RESULTS	TEST METHOD
1	Water Permeability Test under 15 bars (Coefficient of permeability, k in m/sec)	7.2452E -12	IS 3085:1965 (Reaffirmed 1997)
2	Water Penetration Test – Untreated – Treated	30 mm, 20 mm (50% improvement)	DIN 1048-1991 part 5
3	Compressive Strength (7 days), N/mm ²	56.8	BS 1881 Part 125 & 116
4	Compressive Strength (28 days), N/mm ²	67.0	BS 1881 Part 125 & 116
5	Water content (%m/m)	0.88	ASTM C494
6	Non-volatile content (%m/m)	99.1	ASTM C494
7	Chloride content (%m/m)	0.07	BS 5075:Part 1
8	Total sulphur content (%m/m)	0.23	ISO 638
9	Air Content, %	3.4	GB18445-2001
10	Rust (corrosion) Effects to steel bars	No Rust	GB18445-2001
11	Toxicity Test	Non toxic	BS6920:Part1:2000 / SPAN



KESHUN WATERPROOF TECHNOLOGY CO., LTD

Address: No.38-1, Hongqi Zhong Road, Ronggui ,Shunde district , Foshan , Guangdong Province, China

Tel:+86 -757 -2863-7166 Fax:+86-757-2661-4480

E-mail: sales@keshun.com.cn Website: <https://cks.keshun.com.cn>

We hope the information here will be helpful. It is based on data and knowledge considered to be true and accurate, and is offered for consideration, investigation and verification by the user, but we do not warrant the results to be obtained. Please read all statements, recommendations, and suggestions in conjunction with our conditions of sale, which apply to all goods supplied by us. No statement, recommendation, or suggestion is intended for any use that would infringe any patent, copyright, or other third party right.