



Zahabiya

ADMIX-C

Crystalline Waterproof Admixture

Zahabiya ADMIX-C is a single component, cementitious admixture especially designed to impart integral waterproofing properties to concrete. The product comprises of unique active chemicals which by virtue of a catalytic reaction, forms a non-soluble crystalline material that precipitates inside the pores and capillaries of the concrete structure, sealing them against the passage of water. In this way, concrete is permanently sealed / waterproofed against both positive and negative water pressure, even in high pressure applications. The crystals remain permanently active inside concrete and can self-heal/ seal future cracks up to 0.4mm, provided water is present.

Due to its unique properties, Zahabiya ADMIX-C can be used for waterproofing of most concrete structures which are expected to be in contact with water, such as:

- Plinth, Lean, Foundations etc.
- Basements Retaining Walls and Floors
- Water Tanks, Swimming Pools, Reservoirs
- Pre-Cast Structures
- Marine or Coastal Structures
- Dams & Canals
- Tunnels and Bridges
- Parking Structures, Silos etc.

<p>COLOUR: APPARENT DENSITY: NON VOLATILES: WATER CONTENT: CHLORIDE CONTENT: SULPHUR CONTENT: APPLICATION TEMP.: SETTING TIME:</p> <p>WATER VAPOUR PERM.: WATER PERMEABILITY: DOSAGE: STORAGE: SHELF LIFE:</p>	<p>Light Grey Free Flowing Powder.</p> <p>0.90 g/cm³ > 99.0% < 1.0% < 0.1% < 0.25% 5-35°C</p> <p>May increase the setting time of concrete, subject to different mix design. Trial mix are recommended to determine workability and setting time.</p> <p>Does not impede in vapour permeability of concrete.</p> <p>< 5mm @5kg/cm² - 72 hours (EN 12390-8)</p> <p>0.6 - 0.8% of cement & other pozzolan content (by weight).</p> <p>Store in a cool, dry place, at 25-35°C.</p> <p>Use within 12 months of manufacturing date.</p>
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COMPRESSIVE STRENGTH & WATER PERMEABILITY DATA:

Sample*	Water Penetration (Avg), mm**	Compressive Strength (Avg), psi***
Control (without Admix C)	10	3464
0.5% Admix C of Cement Wt.	03	3553
0.8% Admix C of Cement Wt.	02	3428

* All Concrete Casted at Design Mix of 3000psi @ 28 days Cylindrical Compressive Strength.

** Water Penetration Test done on 150mm dia x 150mm Height Cylinder as per EN 12390-8:2009 @ 0.5N/mm² for 72hours.

*** Compressive Strength Test done on 100mm x 200mm Height Cylinder

APPLICATION METHOD:

- Zahabiya ADMIX-C can be added either at batching plant, mixing truck or mixing machines.
- ADMIX-C should be added after addition of cement, sand and aggregates. A thorough mixing for 5 to 10 minutes is recommended.
- It is recommended to carry out mix design trial to determine quantity of water required as ADMIX-C normally reduces the quantity of water required by 5-15%.
- Water is extremely necessary crystals to continuously grow inside the concrete matrix. Care should be taken that the concrete remains hydrated and curing is done regularly.

NOTE:

- Do not mix Zahabiya ADMIX-C at temperature below 5°C.
- Avoid adding in the concrete mix with clays, mica components, amorphous silica and other impurities.

The Information & Data contained herein are correct to the best of our knowledge, tests and experience. These are presented in good faith to the users. The recommendations and suggestions mentioned are made without guarantees or representations as to the results. The Consumer should satisfy himself as to the suitability of the product for the intended purpose and use. WE ASSUME; NO LIABILITY for damages of any kind and the user accepts the product 'as is' and without any other warranties,

