



# 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.

**COLOUR:**

**GRANULOMETRY:**

**APPARENT DENSITY:**

**NON VOLATILES:**

**WATER CONTENT:**

**CHLORIDE CONTENT:**

**SULPHUR CONTENT:**

**APPLICATION TEMP.:**

**SETTING TIME:**

**WATER VAPOUR PERM.:**

**WATER PERMEABILITY:**

**DOSAGE:**

**STORAGE:**

**SHELF LIFE:**

Light Grey Powder.

Fine Free Flowing Powder

0.90 g/cm<sup>3</sup>

> 99.0%

< 1.0%

< 0.1%

< 0.25%

5-35°C

May increase the setting time of concrete, subject to different mix design. Trial mix are recommended to determine workability and setting time.

Does not impede in vapour permeability of concrete.

< 15mm @5kg/cm<sup>2</sup> - 72 hours (EN 12390-8)

0.8% of cement content (400g per 50kg bag of cement).

Store in a cool, dry place, at 25-35°C.

Use within 12 months of manufacturing date.

### 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.

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