

DESCRIPTION

COMPOSITE SYSTEM: HIGH PERFORMANCE HYDROPHOBIC AND CRYSTALLIZATION WATERPROOFING SYSTEM

An organic liquid admixture when added to fresh concrete, reacts with products of the cement hydration process to produce a hydrophobic material, which repels external water thus drastically reducing water absorption into the concrete. This is a combination of hydrophobic and crystallization systems as a single product (Liquid Form).



- Hydrophobic ions which can repel water from entering the concrete.
- Crystallization promoter to promote the growth of Calcium Silicate Hydrate gel (CSH from hydrating cement) as a long-term protection from water ingress.

USES

- Basement/ Water retaining structures with hydrostatic pressure.
- Concrete and masonry structures
- Underground tunnel

TYPICAL PROPERTIES

Appearance	Brown Solution
Specific Gravity	1.10 at 20°C
Chloride Content, BS 5075	Nil
Water Absorption Test, % BS 1881 Part 122:1983	< 1.8
Potable Condition BS 6920 Part 1:2000	Complied
Water Permeability, m/s CRD-C 163-92	< 1.8×10^{-11}

STANDARDS COMPLIANCE

- BS 1881 Part 122:1983
- BS 5075
- BS 6920 Part 1:2000
- CRD-C 163-92

KEY FEATURES

- Chloride free.
- Reduces surface absorption.
- Minimizes cracking and plastic shrinkage.
- Provided integral protection ensuring reduced permeability throughout the concrete.
- Improves compressive strength at same workability.
- Increase in service life.
- Increase formation of crystal (Calcium Hydroxide) during cement hydration process.
- No alterations in original mix-design *(Approximately 4.5L/m³).

INSTRUCTION FOR USE

• DOSSAGE

Movex Composite Admix Pro may be dispersed to the gauging water at the rate of 1 Liter per 100 kg of Portland cement. For severe conditions, a maximum of 1 dose is recommended. Movex Composite Admix is also water reduction agent. Therefore, the maximum free water cement ratio shall not be more than 0.55, before dosing of Movex Composite Admix.

• EFFECT OF OVERDOSING

An overdose of double the intended dose of Movex Composite Admix Pro may result in increased retardation and workability; hence reduce the short-term strength development. Long term strength is unlikely to be affected. Should segregation of concrete occur, due to excessive increase in workability, the concrete shall not be used.

• DISPENSING

The correct quantity of Movex Composite Admix Pro should be measured by means of a recommended dispenser. The Movex Composite Admix Pro should then be added to the concrete with the mixing water to obtain the best results. Concrete with higher Grade would require higher cement content.

• CURING

As with all structural concrete, good curing practice should be maintained, particularly in situations where an overdose has occurred. Water spray should be used. Good concrete practice must be followed at all times. Well graded aggregates must be used and minimum cement content of 300kg/m³ is recommended for Grade 30 and below.

PACKAGING

- 210 L Drum
- 20 L Pail

SHELF LIFE

12 months provided it is stored in a dry place. Once the tin has been opened, the product must be used immediately.

HANDLING

These safety recommendations for handling are necessary for the implementation process as well as in the pre-and post, on exposure to the loading machinery.

- Skin protection: Use rubber gloves, remove immediately after contamination. Wear clean body-covering. Wash thoroughly with soap and water after work and before eating, drinking or smoking.
- Eye / Face: Wear safety goggles to prevent splashing and exposure to particles in air.
- Waste: Waste generation should be avoided or minimized. Incinerate under controlled conditions in accordance with local laws and national regulations.