

INNO-MIX FOX ADMENT FM 777

High Rate Water Reducing / Super plasticizer Admixture

Description

FOX ADMENT FM 777 is a naphthalene sulphonate based, high water reducing / super plasticizing concrete admixture which increases the early and final strength of concrete by giving rheoplastic properties to concrete.

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Table 3.1 and Table 3.2 = High Water Reducing / Super plasticizer Concrete Admixture

ASTM C 494 Type F = It is accordance with high Water Reducing Concrete Admixture Standards.

Place of Usage

- In pumpless and pumped ready mixed concrete production,
- In wet shotcrete production,
- Precast and prefabricated concrete production,
- In prestressed concrete production with low water / cement ratio,
- It is used in rheoplastic concretes where it is necessary to take early molds and that can be easily placed on reinforced concrete elements.

Advantages

- Reduces the amount of water by at least 12% by weight compared to concrete without admixture,
- It provides lower water / cement ratio at the same workability or higher workability and easy pumpability at the same water / cement ratio compared to concrete without admixture.
- Increases early and final strengths compared to concrete without admixture,
- Increases compressive and bending strength of concrete compared to concrete without admixture,
- Decreases demoulding time compared to concrete without admixture,
- Increases abrasion resistance of concrete by reducing decomposition and perspiration.
- It increases the resistance of concrete against freezing and thawing cycle,
- Improves other mechanical properties of concrete such as impermeability, permanence, shrinkage and creep,
- It settles with less vibration even in closely reinforced concrete structures
- Does not contain chlorine.

Technical Data

Structure of Material	Naphthalene Sulfonate Based	
Density	1,184 – 1,244 kg/lit	
Color	Brown	
Chlorine Content	EN 480-10	< 0,1
Alkaline Content	EN 480-12	< 5

The above values are given at + 23 ° C and 50% relative humidity. High temperatures shorten the time, low temperatures prolong the time.

Mixing

The binder (such as cement-micro silica-volatile-ash-slag) and aggregate should be mixed until a homogeneous mixture is obtained. After is added 50-70% of the water to be added to the mixture, **FOX ADMENT FM 777** and the remaining water should be added to the mixture. **FOX ADMENT FM 777** should be mixed preferably 60 second or at determined time according to laboratory tests for homogeneous distribution within mixture.

Compatibility with Other Additives

FOX ADMENT FM 777 can be used in accordance with the following materials.

- Can be used with all cement types.
- It is used with mineral admixtures such as micro silica, fly, volatile and slag in cases where a high amount of binder material is needed.
- It is used with air entraining additives in order to increase freeze-thaw resistance.
- By using with **FOX BINDER FM 125**, shrinkage is prevented.
- It is used together with synthetic and steel fibers against cracking caused by plastic shrinkage.
- In high temperature and with high air flow environments; In order to prevent evaporation of mixing water in concrete, it is used by selecting the appropriate curing materials such as **FOX PL-CURE FR 811**, **FOX HYDROCURE FR 761**, **FOX ACURE FR 570**.

Consumption

It is recommended to be used at a rate of 1,0 – 2,0 kg of **FOX ADMENT FM 777** per 100 kg binder (such as cement-micro silica-volatile-ash-slag). Usage dosage should be determined by laboratory tests to be done before according to concrete class and properties.

Package

30 kg plastic drum
230 kg barrel

Shelf Life

Shelf life is 12 months from the date of production when stored properly at + 5 ° C to + 30 ° C, room temperature away from direct sunlight. Opened packages should be consumed within 1 week by closing their mouths.

Storage

It should be stored in original unopened package, in cool and dry environment, protected from freezing. In short-term storage, a maximum of 3 pallets must be placed on top of each other and shipped with the first-in first-out system. In long-term storage, pallets should not be placed on top of each other.

Health and Safety Precautions

It is dangerous to approach the application sites with fire. Fresh air should be circulated in the storage and the application sites. During the application, a protective apparel, protective gloves, goggles and masks which comply with the Occupational Health and Safety Rules should be used. Due to the irritation effect of the uncured materials, the mixture should not come into contact with skin and eyes; in case of a contact, the affected area should be washed with plenty of water and soap; in case of swallowing, a physician should be consulted immediately. No food or beverages should be brought to the application area. The product should be stored and kept out of reach of children.

For detailed information please consult the Material Safety Data Sheet.

Disclaimer

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