

## INNO-MIX FOX ADFREEZE FM 101

### Set Accelerator / Plasticizer Antifreeze Concrete Admixture

#### Description

**FOX ADFREEZE FM 101**, Polynaphthalene sulfonate and nitrate salt based, especially accelerating the reaction between water and cement at the beginning of the setting, the acceleration and strength of the concrete outlet is increasing, suitable for cold climate conditions, setting accelerator / plasticizer concrete admixture.

**Bayındırlık Poz No: 04. 613/ 7 TS EN 934-2**

**chart 6: Set Accelerator Concrete Admixture**

**ASTM C 494**

**type C: It is suitable for setting accelerator concrete admixture standards**

#### Usage areas

- Pumped and non-pumped ready-mixed concrete production,
- In cold weather, castings where concrete is protected from frost and early high strength is required,
- In prefabricated and precast concrete castings,
- It is used in the production of all kinds of lightweight or normal weighted concrete with and without reinforcement.

#### Benefits

- Shortens the starting and finishing setting times of concrete compared to concrete without admixture,
- Prevents frost effect by providing early strength gain to concrete, especially in cold weather,
- Does not contain chlorine.

#### Technical specifications

Material Structure	Polynaphthalene Sulphonate and Nitrate Based
Density	1,112-1,172 kg/lit
Color	Amber
Chlorine content EN 480-10	< 0,1
Alkaline content EN 480-12	< 10
Service Temperature	-20°C / + 80°C

Yukarıdaki değerler +23°C'de ve %50 bağıl nem için verilmiştir. Yüksek sıcaklıklar süreyi kısaltır, düşük sıcaklıklar süreyi uzatır.

#### Mixing

The binder (such as cement-micro silica-fly ash-slag) and aggregate should be mixed until a homogeneous mixture is obtained. After adding 50-70% of the water to be added to the mixture, **FOX ADFREEZE FM 101** and the plasticizer to be used should be added to the mixture together with the remaining water. **FOX ADFREEZE FM 101**, should mix for 60 sn. or timing which established based on laboratory tests for homogeneous distribution.

#### Consumption

**FOX ADFREEZE FM 101** According to TS EN 934-2 standard, it is recommended to use 2.5 - 5.0 kg per 100 kg binder alone (such as cement-micro silica-fly ash-slag) when accelerating the socket. When used in combination with another plasticizer, it can also be used at a rate of 1.0 kg to 2.0 kg to 100 kg of binder (such as cement-micro silica-fly ash-slag), depending on the type and dosage of the other plasticizer. Usage dosage should be determined by laboratory tests according to concrete class and properties.

#### Compatibility with Other Additives

**FOX ADFREEZE FM 101**, Can be used in accordance with the following materials.

- Can be used with all cement types
- Can be used with micro silica, fly ash and slag where high binding material is needed
- It is used with air entraining additives in order to increase freezing and thawing resistance.
- It is used together with synthetic and steel fibers against cracking caused by plastic shrinkage.
- In high temperature and 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**, **FOXACUREFR570**.



### **packing**

30 kg plastic drum

### **Shelf Life**

Shelf life is 12 months from the date of production when stored properly at +5 °C to +30 °C at room temperature, away from direct sunlight. Opened products must be used within 1 week.

### **Storage**

The product should be stored in its original package, in a cool and dry place protected from frost. For short term storage, maximum 3 palettes should be placed on top of each other and the shipment should be made on a 'first come, first go' basis. Palettes should not be placed on top of each other during long term storage.

### **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.

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