

INNO-MIX FOX ADMENT MS FM290

Condensed Micro Silica

Description

FOX ADMENT MS FM290 is a mineral admixture used in normal and shotcrete, which improves the interfacial properties of the concrete and the microstructure of the cement paste, increasing its engineering properties such as compressive strength, flexural strength, fracture mechanics and impermeability.

In compliance with ASTM C 618, ASTM C-1240/95, AASHTO M 307, CAN/CSA 23,5-M86 standards.

Fields of Application

- In tunnel filling works,
- Wet system spraying and traditional concrete applications,
- Normal and lightweight concrete production,
- High strength concrete,
- In the production of ready mixed concrete with and without pump
- Low cement dosage concretes,
- It is used in underwater concretes.

Advantages

- It provides obtaining higher pressure and tensile strength in all types of concrete.
- Reduces the curing accelerator dosage in shotcrete.
- It enables application as more thicker layers in shotcrete.
- Reduces rebound rate in shotcrete applications.
- It increases permanence against mechanical and chemical effects.
- It increases the water impermeability of concrete.
- Prevents water vomiting and segregation in fresh concrete.
- Reduces chlorine permeability.

Technical Data

Structure of Material	Condensed Microsilica
Color	Gray
Density	0,55-0,70 kg/liter
Chlorine Amount	<%0,1
Thinness	> 15000 m ² /kg
SiO ₂ Ratio	>%85
CaO Ratio	<%1
SO ₃ Ratio	<%2
Particle smaller than 0.045mm	<%40
Activity Index	>%95
Activity Index	2300 kg/m ³

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

Compatibility with Other Materials

- Can be used with all cement types.
- **FOX ADMENT** series super plasticizers are highly recommended for the production of micro silica concrete.
- In environments with high temperature and high air flow; it should be used by selecting the appropriate curing material from **FOX PL-CURE FR811**, **FOX HYDROCURE FR761**, **FOX ACURE FR570** and **FOX P-CURE FR515** to prevent evaporation of the mixing water in the concrete.

Application

FOX ADMENT MS FM290 is added to the mixture in the concrete plant after cement.

Coverage

FOX ADMENT MS FM290 is used at a rate of 5-10 kg for 100 kg of cement.

Watch Points

- **FOX ADMENT MS FM290** should be used with super plasticizing concrete admixtures.
- The dosage may vary depending on laboratory experiments. For detailed information, consult Technical Service of **SARTECH Yapı Malzemeleri San. ve Tic. Ltd. Sti.**



Package

750 kg big bag

Shelf Life

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

Storage

It should be stored in its original package, in a cool and dry place, away from direct sunlight and protected from frost. In short term storage, maximum 2 pallets should be placed on top of each other and shipment should be made with the first in, first out system. In long-term storage, pallets should not be placed on top of each other.

Safety Precautions

It is dangerous to approach the storage and application areas with fire. Storage and application areas should be ventilated.

During the application, work clothes, protective gloves, goggles, masks in accordance with the occupational health and safety rules should be used. During storage and application, the material should not be contacted with the skin and eyes, if contacted, should be washed immediately with plenty of water and soap, and if swallowed, should be sought medical attention immediately. Foods and drinks should not be taken into the application areas. The material should be stored out of the reach of children.

For detailed information, please refer to the Material Safety Data Sheet.

Disclaimer

The data contained in this technical document is based on our scientific and practical knowledge. SARTECH Yapı Malzemeleri San. ve Tic. Ltd Şti. is only responsible for the quality of the product. From the results that may occur due to misuse and other than written suggestions about where and how to use the product, SARTECH Yapı Malzemeleri San. ve Tic. Ltd Şti. cannot be held responsible. The responsibility of the correct application of our product belongs to the user. Our company is only responsible for the quality of the product. This technical form is valid only till a new version is implemented and nullifies the old ones. Our company has the right to make changes in all kinds of information and content details in this catalog. It is imperative to check that the information in the catalog is current and valid. All rights reserved.

