

## High range water reducing admixture based on polycarboxylic technology.

### Uses

Auramix 450 is a high performance superplasticiser intended for applications where high water reduction and long workability retention are required, and it has been developed for use in:

- Self-compacting concrete,
- Pumped concrete,
- Concrete requiring long workability retention,
- High performance concrete.

### Standard Compliance

Auramix 450 Conforms to IS 9103 - 1999 (2007)

### Advantages

- Low viscosity suitable for pumping of different grades of concrete to higher floors
- Higher E modulus
- Improved adhesion to reinforcing and prestressing steel
- Better resistance to carbonation
- Lower permeability
- Better resistance to aggressive atmospheric conditions
- Reduced shrinkage and creep
- Increased durability

### Description

Auramix 450 is a unique combination of the latest generation superplasticisers, based on a polycarboxylic ether polymer with long lateral chains. This greatly improves cement dispersion. At the start of the mixing process an electrostatic dispersion occurs but the cement particle's capacity to separate and disperse. This mechanism considerably reduces the water demand in flowable concrete.

Auramix 450 combines the properties of water reduction and workability retention. It allows the production of high performance concrete and/or concrete with high workability.

### Technical support

Fosroc provides a technical advisory service for on-site assistance and advice on mix design, admixture selection, evaluation trials and dispensing equipment.

### Properties

Appearance : Light yellow coloured liquid

pH : Minimum 6.0

Volumetric mass @ 20° C : 1.09 to 1.11

Chloride content : Nil to IS:456

### Dosage

The optimum dosage of Auramix 450 to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. The normal dosage range is between 0.5 to 3.0 ltrs/100 kg of cementitious material.

### Use at other dosages

Dosage outside the normal range quoted above can be used to meet particular mix requirements. Contact Fosroc for advice in these cases.

### Effects of overdosing

Overdosage may cause delay in the setting time and segregation.

### Estimating

### Packaging

Auramix 450 is supplied in 200kg, 250kg and Bulk.

### Storage

Auramix 450 has a minimum shelf life of 12 months provided the temperature is kept within the range of 2°C to 50° C. Should the temperature of the product fall outside this range then contact local Fosroc office for advice.

### Precautions

#### Health and safety instructions

Auramix 450 does not fall into the hazard classifications of current regulations. However, it should not be swallowed or allowed to come into contact with skin and eyes.

Suitable protective gloves and goggles should be worn.

Splashes on the skin should be removed with water. In case of contact with eyes rinse immediately with plenty of water and seek medical advice. If swallowed seek medical attention immediately - do not induce vomiting.

# Auramix 450

---

For further information refer the Safety Data sheet available for this product.

## **Fire**

Auramix 450 is water based and non- flammable.

## **Cleaning and disposal**

Spillages of Auramix 450 should be absorbed onto sand, earth or vermiculite and transferred to suitable containers. Remnants should be hosed down with large quantities of water.

The disposal of excess or waste material should be carried out in accordance with local legislation under the guidance of the local waste regulatory authority.