

High performance admixture for Ultra high strength concrete, based on Polycarboxylic technology

Uses

Auramix 600 is a high performance superplasticiser intended for ultra-high strength concrete having very low water cement ratio and long workability retention are required, and it has been developed for use in:

- Self-compacting concrete.
- Pumpable concrete to greater heights.
- Concrete requiring long workability retention.
- For Ultra High Strength Concrete.
- High Performance Concrete.
- Slender structural sections.

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.
- Compatible with all types of cement except high alumina cement.
- Compatible with cement replacement such as Fly ash, GGBS and microsilica.
- Reduced shrinkage and creep.
- Increased durability.

Standard Compliance

Auramix 600 complies with IS: 9103-1999(2007). Also complies with ASMT C494 Type F and G depending on the dosage used.

Description

Auramix 600 is a unique combination of the latest generation superplasticisers, based on a polycarboxylic ether polymer with long lateral chains. Upon mixing with concrete, occurrence of electrostatic dispersion will allow cement particles to separate each other. This mechanism considerably reduces the water demand in flowable concrete.

Auramix 600 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	:	1.100 ± 0.02 kg/litre
Chloride content	:	Nil to IS:456
Alkali content	:	Typically less than 1.5 g Na ₂ O equivalent / litre of admixture.

Dosage

The optimum dosage of Auramix 600 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 kg/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

Over dosage may cause delay in the setting time and segregation.

Estimating

Packaging

Auramix 600 is available in 200kg drums and bulk tanker.

Storage

Auramix 600 has a minimum shelf life of 24 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.

Auramix 600



Precautions

Health and safety instructions

Auramix 600 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.

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

Fire

Auramix 600 is water based and non- flammable.

Cleaning and disposal

Spillages of Auramix 600 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.



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