

Auramix 300

Advanced low viscosity retarding Superplasticiser, based on Polycarboxylic technology

Uses

Auramix 300 is a high performance retarding superplasticiser intended for applications where retardation and long workability retention are required, and it has been developed for use in:

- Mass raft foundation,
- Pumped concrete,
- Concrete requiring long workability retention,
- High performance concrete.

Advantages

- Increased retardation controls the heat of hydration and yields high ultimate strength
- Arrest bleeding and segregation due to presence of in-built VMA.
- 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

Standard Compliance

Auramix 300 Complies with IS 9103-1999(2007) . It also complies with ASTM C 494 Type F & Type G depending on the dosage used.

Description

Auramix 300 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 300 combines the properties of water reduction and workability retention. It allows the production of high performance concrete and/or concrete with high workability.

Auramix 300 is a strong superplasticiser allowing production of consistent concrete properties around the required dosage.

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 : 1.085 kg/litre

Chloride content : Nil to IS:456 *

Alkali content : Typically less than 1.5 g Na₂O equivalent / litre of admixture.

* The uniformity parameters like specific gravity, pH, chloride content etc. will vary for specific customer requirements and mix design. Please refer our MTC issued for specific product configuration for measuring our product parameters that will be constantly and consistently administered.

Dosage

The optimum dosage of Auramix 300 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 1.5 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.

Auramix 300

Estimating

Packaging

Auramix 300 is available in 200 kg and 250 kg drums and bulk tanker.

Storage

Auramix 300 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 300 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 300 is water based and non-flammable.

Cleaning and disposal

Spillages of Auramix 300 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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