

Auramix 300 Plus

Robust concrete admixture for long workability retention with good rheology

Uses

Auramix 300 Plus is a high performance retarding superplasticiser intended for applications where retardation and long workability retention (4 hours and more) are required, and it has been developed for use in:

- Mass concreting - raft foundation,
- To produce free flow concrete,
- Concrete requiring long workability retention - 4 hours and more,
- High performance concrete in terms of strength & durability.

Advantages

- Suitable for higher volume cement replacement of GGBS or Flyash.
- Increased retardation controls the heat of hydration and yields high ultimate strength.
- 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 300 Plus 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 Plus 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 Plus 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	: 1.08 ± 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 300 Plus 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 2.0 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

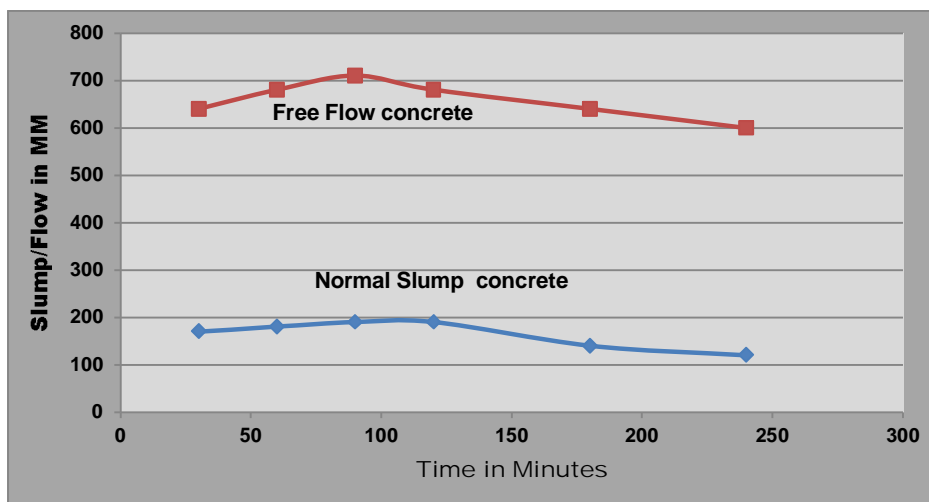
Packaging

Auramix 300 Plus is available in 200 litre drums and bulk tanker.

Storage

Auramix 300 Plus 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.

Auramix 300 Plus



Precautions

Health and safety instructions

Auramix 300 Plus 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 consult the Material Safety Data sheet available for this product.

Fire

Auramix 300 Plus is water based and non- flammable.

Cleaning and disposal

Spillages of Auramix 300 Plus 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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