

High water reducing concrete admixture based on polycarboxylic technology.

Uses

Auramix 401 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 401 complies with IS:9103-1999(2007). It also complies with ASTM C494 Type G depending on the dosage used.

Advantages

- Low viscosity suitable for pumping of different grades of concrete to higher floors
- Compatible with all types of cement and cement replacement materials such as GGBFS, Flyash and Microsilica.
- 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 401 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 401 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 ± 0.02 kg/litre
Chloride content	:	Nil to IS:456

* 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 401 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 0.4 to 1.5 litres/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 401 is available in 200kg and 250kg drums and bulk tanker.

Auramix 401

Storage

Auramix 401 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 401 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 401 is water based and non-flammable.

Cleaning and disposal

Spillages of Auramix 401 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.