

Water reducing PCE based admixture for wide range of concrete grades.

Uses

Auramix DIS is a water reducing super plasticizer suitable for low and high grade concrete and intended for applications where high water reduction and long workability retentions are required. Suitable for cement replacements and manufactured sand.

Auramix DIS developed to use in:

- Workability retention concrete.
- Pumpable Concrete.
- High strength concrete

Advantages

- Low viscosity admixture suitable for pumping different grades of concrete to greater heights.
- Suitable for concrete having cement replacements and low water cement ratio.
- Provides higher strength without increase in cement content or reduction in workability.
- Reduce rate of workability loss normally associated with super plasticiser. Reduces shrinkage cracking because of lower water cement ratio. Makes the concrete water impermeable.
- Better resistance to Carbonation.
- Reduce Shrinkage and Creep.
- Increase Durability.

Standard Compliance

Auramix DIS complies to IS:9103 : 1999 as a water reducing admixture.

Description

Auramix DIS is a unique combination of new generation super plasticizer based on polycarboxylic ether polymer with long lateral chain. Electrostatic dispersion mechanism considerably reduces the water demand in flowable concrete. It is supplied as a light brown liquid, instantly dispersible in water.

Auramix DIS disperses the cement particles effectively in the concrete mix and hence exposes a larger surface area to the hydration process. This effect is used either to increase the strength or to produce high workability concrete or reduce cement content of concrete.

Technical support

Fosroc provides technical advisory service for on-site assistance and guidance on mix design, optimum dosage evaluation of trials.

Properties

Appearance	:	Light Brown Liquid
pH	:	Minimum 6.0
Volumetric mass @ 25° C	:	1.05 ± 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.
Workability Retention	:	2 hours and more Depending on Dosage

Dosage

The optimum dosage of Auramix DIS to meet specific requirement should always be determined by conducting laboratory and batch trials. However the normal dosage ranges between 0.3 to 1.3 percent by weight of total cement or binder content.

Dosage beyond Limits:

Dosage beyond limits can be used to meet particular mix requirements in consultation with Fosroc technical department.

Effect of over dosage:

Over dosage may cause delay in setting and segregation.

Estimating

Packaging:

Auramix DIS is available in 200 kg & 250 kg drums.

Storage

Auramix DIS has a minimum shelf life of 12 months provided the temperature is kept within range of 5°C and 50°C.

Auramix DIS

Precautions

Health and safety instructions

Auramix DIS 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.

Fire

Auramix DIS is water based and non-flammable.

Cleaning and disposal

Spillages of Auramix DIS 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.

Additional information

The Fosroc range of associated products includes high strength cementitious, epoxy grout, polyester resin based mortar for rapid pre-setting of steel shims to level or for direct bedding of small base plates; Resin Anchoring systems for same day anchoring of bolts in drilled holes in concrete or rock. Also available a range of products for use in construction; viz., curing compounds, release agents, flooring systems, repair mortars, sealants and waterproofing materials.

Separate datasheets are available on these products.