Auracast 50

constructive solutions

Concrete admixture for precast concrete elements to obtain high early compressive strength.

Uses

Auracast 50 is a high performance precast super plasticiser intended for applications where reduction in cycle time and early strength are required, and it has been developed for use in

- Precast concrete elements like Hollow core slabs , Cement Tiles , Kerbstones , Edgings ,other items for garden landscape design ,Building blocks , bricks etc
- Concrete requiring high early strength without steam curing
- High performance concrete

Advantages

- Low viscosity admixture suitable for precast elements.
- Suitable for concrete having cement replacements and low water cement ratio.
- Provides high early strength without increase in cement content or reduction in workability. Ideal for precast concrete production.
- Early de-shuttering will result in increased productivity.
- Improves surface finish
- Minimizes damage due to early handling
- Better resistance to Carbonation.
- Reduces Shrinkage and Creep
- Reduces efflorescence.

Standard Compliance

Auracast 50 complice to IS:9103:1999 as a Superplasticizer and ASTM C 494 Type F.

Description.

Auracast 50 is a unique combination of the latest generation super plasticisers, based on polycarboxylic ether polymer with long side chains and short main chains. This greatly improves cement dispersion and as well as facilitate quick start of hydration process. At the start of the mixing process an electrostatic dispersion occurs but the cement particles capacity to separate and disperse. This mechanism considerably reduces the water demand in flowable concrete.

Auracast 50 is a strong super plasticiser allowing production of consistent concrete properties at required dosage.

Technical support

Fosroc provides technical advisory service for on-site assistance and advice on mix design, admixture selection, evaluation trials and dispensing equipment

Properties

Appearance	Light yellow to brownish coloured liquid
pH	Minimum 6.0*
Chloride content	As per BS EN : 480-10-1997* (product contains a chemical hich interferes in the procedure as per IS 9103)
Relative density	1.04 ± 0.02*

* 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 Auracast 50 to meet specific requirement should always be determined by trials using the materials and conditions that will be experienced in use. The normal dosage range is between 0.2 to 2.0 ltrs/100 kg of cementitous material

Dosage beyond Limits:

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

Effects of overdosing

Overdosage may cause delay in the setting time and segregation.

Estimating

Packaging

Auracast 50 is available in 200 Kg and 20 Kg drums and bulk tankers

Storage

Auracast 50 has a minimum shelf life of 12 months provided the temperature is kept within the range of 2°C to 50°C.

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Precautions

Health and safety instructions

Auracast 50 does not fall into the hazard classifications of current regulations. However it should not be swallowed or allowed to come in contact with skin or eyes. Suitable protective gloves and goggles should be worn.

Fire

Auracast 50 is water based and non- flammable.

Cleaning and disposal

Spillage of Auracast 50 should be absorbed onto sand, earth or vermiculite and transferred to suitable container. Remnants should be hosed down with large quantity 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

Separate datasheets are available on these products

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Important note :
Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation, specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.

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