

Admixture for high early strength concrete for precast industry having cement replacement.

Uses

Auracast 102 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 Block, 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 102 complies to IS:9103:1999 as a Superplasticizer and ASTM C 494 Type F depending on dosage.

Description

Auracast 102 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 102 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 *

Relative density : 1.04 + 0.02 *

Chloride Ion content : As per BS EN : 480-10-1997*
(Product contains a chemical which interferes in the procedure as per IS 9103)

* 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 102 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 0.25 to 1.5 percent by weight of cementitious material.

Dosage beyond Limits:

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

Effects of overdosing

Over dosage may cause delay in the setting time and segregation.

Estimating

Packaging

Auracast 102 is available in 250 kg and bulk tankers.

Storage

Auracast 102 has a minimum shelf life of 12 months provided the temperature is kept within the range of 2°C to 50°C.

Auracast 102

Precautions

Health and safety instructions

Auracast 102 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 102 is water based and non- flammable.

Cleaning and disposal

Spillage of Auracast 102 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.