

A PCE based admixture specially designed for precast, RMC, SCC and ultra high performance concrete (UHPC)

Uses

Auracast 330 is a high performance hyperplasticiser intended for applications where increased early and ultimate compressive strengths are required, and it has been developed for use in:

- Pre-cast concrete
- Ultra high performance concrete (UHPC).

Advantages

- Specially optimised for concrete containing fine sand and clay content
- Specially developed for precast elements for high early strength and surface finish
- Improved adhesion to reinforcing and stressing steel
- Improved resistance to carbonation
- Lower permeability
- Increased resistance to aggressive atmospheric conditions
- Reduced Shrinkage and Creep
- Increased workability retention without affecting setting time
- Enhanced pumpability

Standard Compliance

Auracast 330 conforms with BS 5075, BS:EN 934-2 and with ASTM C494 as Type F & G depending on the dosage used.

Description.

Auracast 330 is differentiated from conventional superplasticisers in that it is based on a unique carboxylic ether polymer with long lateral chains. This greatly improves cement dispersion. At the start of the mixing process an electrostatic dispersion occurs but the presence of the lateral chains, linked to the polymer backbone, generate a steric hindrance which stabilises the cement particle's capacity to separate and disperse. This mechanism considerably reduces the water demand in flowable concrete.

Auracast 330 combines the properties of water reduction and workability retention. It allows the production of high performance concrete and/or concrete with high workability.

Auracast 330 is a particularly strong hyperplasticiser 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 admixture selection, evaluation trials and dispensing equipment. Technical data and guidance can be provided for admixtures and other products for use with fresh and hardened concrete.

Typical Properties

| | |
|------------------|-----------------------------------|
| Appearance | : Yellowish brown coloured liquid |
| Specific gravity | : 1.10 @ 25°C |
| Chloride content | : Nil to BS 5075 / BS:EN934 |

Dosage Guidelines

The optimum dosage of Auracast 510-C to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use.

The dosage guideline range is between 0.5 to 2.5 litres/100 kg of cementitious material used.

Use at other dosages

Dosages outside the above dosage guidelines can be used to meet particular concrete mix requirements. Please contact Fosroc for advice in such cases.

Instructions for use

Compatibility

Auracast 330 should not be used in conjunction with any other admixture unless prior approval is obtained from your local Fosroc office.

Auracast 330 is suitable for use with all types of Portland cements and cement replacement materials such as PFA, GGBFS, SRC and microsilica.

Mixing

When used at the mixing plant, Auracast 330 should be added in the mixing water.

In some instances, e.g. addition to ready mix concrete on site, Auracast 330 can be added directly in the truck mixer and mixed at maximum speed for an extra 5 minutes.

Auracast 330

Dispensing

The correct quantity of Auracast 330 should be measured by means of a recommended dispenser. The admixture should then be added to the concrete with the mixing water to obtain the best results. Contact Fosroc for advice regarding suitable equipment and its installation

Estimating

Supply

Auracast 330 : 1000 litre totes & Bulk

For larger users, storage tanks can be supplied.

Storage

Auracast 330 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 Fosroc for advice.

Precautions

Health and safety

Auracast 330 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

Auracast 330 is water based and non-flammable.

Cleaning and disposal

Spillages of Auracast 330 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.

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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