



Structuro[®] 330

A high performance concrete superplasticiser based on polycarboxylic technology, suitable for ready mix concrete

Uses

Structuro 330 is a high performance superplasticiser intended for applications where increased workability retention is of prime importance and it has been developed for use in :

- Ready mix concrete
- Pumped concrete
- Concrete requiring long workability retention
- High performance concrete

Advantages

- Suitable for hot weather conditions
- Increased early and ultimate compressive strengths
- Increased flexural strength
- Higher E modulus
- Improved adhesion to reinforcing and stressing steel
- Better resistance to carbonation
- Lower permeability
- Better resistance to aggressive atmospheric conditions
- Reduced shrinkage and creep
- Increased durability

Description

Structuro 330 is differentiated from conventional superplasticisers in that it is based on a unique carboxylic ether polymer with 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.

Technical Support

Fosroc provides a technical advisory service for onsite assistance and advice on mix design, admixture selection, evaluation trials and dispensing equipment.

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

Structuro 330 is particularly a strong superplasticiser allowing production of consistent concrete properties around the required dosage.

Properties

Appearance	: Light yellow coloured liquid
pH	: 6.5
Volumetric mass	: 1.09kg/ltr @ 25°C
Chloride content	: < 0.1%
Alkali content	: Typically less than 1.5g Na ₂ O equivalent /litre of admixture

Dosage

The optimum dosage of Structuro 330 to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. As a general guideline the dosage ranges shall vary from 0.5 to 3.0 litres /100 kg of cementitious material.

Use at other dosages

Dosages outside the normal range quoted above can be used to meet particular mix requirements. Fosroc can be contacted for advice in these cases.

Effects of overdosing

Overdosage may cause delay in the setting time.

Instructions for use

Compatibility

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

Structuro 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, Structuro 330 should be added in the mixing water.

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

Structuro® 330

Dispensing

The correct quantity of Structuro 330 should be measured by means of a recommended disperser. 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 - packaging

Structuro 330 is available in 200 litre drums.

Storage

Structuro 330 has a minimum shelf life of 24 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

Structuro 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

Structuro 330 is water based and non-flammable.

Cleaning and disposal

Spillages of Structuro 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.

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Important note :

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