



constructive solutions

Structuro 335*

A high performance concrete superplasticiser based on polycarboxylic technology

Uses

Structuro 335 is a high performance superplasticiser intended for applications where increased early and ultimate compressive strengths are required, and it has been developed for use in:

- Self compacting concrete
- Pumped concrete
- Concrete requiring long workability retention
- High performance concrete
- Pre-cast concrete

Advantages

- 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 335 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.

Structuro 335 combines the properties of water reduction and workability retention. It allows the production of high performance concrete and/or concrete with high workability.

Structuro 335 is a particularly strong superplasticiser allowing production of consistent concrete properties around the required dosage.

Properties

Appearance	:	Light yellow coloured liquid
pH	:	6.5
Volumetric mass	:	1.06 kg/ltr @ 20°C
Chloride content	:	<0.1%
Alkali content	:	Typically less than 1.5gm Na ₂ O equivalent / litre of admixture

Dosage

The optimum dosage of Structuro 335 to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. The normal dosage range is between 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. Contact Fosroc for advice in these cases.

Effects of overdosing

Overdosage may cause delay in the setting time.

Technical support

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

Structuro 335*

Instructions for use

Compatibility

Structuro 335 should not be used in conjunction with any other admixture unless prior approval is obtained from your local Fosroc office.

Structuro 335 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 335 should be added in the mixing water.

In some instances, e.g. addition to ready mix concrete on site, Structuro 335 can be added directly in the truck mixer and mixed at maximum speed for an extra 5 minutes.

For Self compacting concrete, a viscosity enhancer eg. Structuro 480* is recommended at a dosage between 1.0 - 4.0 litre per cubic metre.

Dispensing

The correct quantity of Structuro 335 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 - packaging

Structuro 335 is available in 200 litre drums and 1000 litre totes.

Storage

Structuro 335 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

Structuro 335 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 335 is water based and non-flammable.

Cleaning and disposal

Spillages of Structuro 335 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.

* Denotes the trademark of Fosroc International Limited

† See separate data sheet



PT. Fosroc Indonesia

Jl. Akasia II Blok A8 No. 1
Delta Silicon Industrial Park
Lippo Cikarang
Bekasi 17550
Indonesia

www.fosroc.com

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telephone:

+ 62 21 897 2103
+ 62 22 520 1308
+ 62 31 502 9142

fax:

+ 62 21 897 2107
+ 62 22 522 2713
+ 62 31 502 2711

email:

indonesia@fosroc.com



Registered Office: Jl. Akasia II Blok A8 No. 1, Delta Silicon Industrial Park, Lippo Cikarang, Bekasi 17550, Indonesia

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