



Structuro[®] 485

High performance cohesion agent specially designed to ensure a good consistency and stability in concrete with very high fluidity

Uses

- Self compacting concrete
- Precast concrete
- Cement floor screeds
- Improved water retention
- Compatible with all superplasticisers
- To add body to lean concrete mixes and those that contain gap graded aggregation.
- Ultra-fine binder based grout and grout compositions
- Walls with a high density of reinforcement

Advantages

- Useful in bleed control of concrete mix.
- Particularly adapted to the production of self compacting concrete.
- Provides hydraulic binder-based material excellent stability, opposes sweating, segregation and sedimentation in treated concrete
- Results in concrete with a high level of fluidity that can be poured and placed by gravity avoiding the need of vibration. For horizontal applications, only a simple 'adjustment' with a beam is necessary.
- Results in high quality facing without the nuisances inherent in the use of mechanical means (noise, etc.)

Technical Support

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

Dosage

The optimum dosage of Structuro 485 to meet specific requirements should always be determined by trial mixes using the materials and conditions that will be experienced in use. This will be dependant on the size of the largest aggregate and the quantity of the mix's fine elements less than 80 microns.

The normal dosage range is from 1.0 to 4.0 litre/m³ of concrete material, including PFA, GGBFS and microsilica.

- For slabs 1.0 to 4.0 litre /m³
- For vertical application and to obtain a well finished facing 2.0 to 3.0 litre/m³

Properties

Appearance : Water white viscous liquid

Specific gravity : 1.06 @ 27°C

Chloride ions content : < 0.1%

pH : 6.6 - 7.5

Instructions for use

Mix design

Where the main requirement is to provide high workability concrete, the mix design should be one suitable for use as a pump mix. Advice on mix design for flowing concrete is available from Fosroc.

After initial trials, minor modifications to the overall mix design may be made to optimise performance.

Compatibility

Structuro 485 is compatible with other Fosroc admixtures used in the same concrete mix. All admixtures should be added to the concrete separately and must not be premixed together prior to addition. The resultant properties of concrete containing more than one admixture should be assessed by trial mixes.

Structuro 485 is suitable for use with all types of Portland cements, SRC cements and cement replacement materials such as PFA, GGBFS and microsilica.

The use of a combination of admixtures in the same concrete mix and or cement replacements may alter the setting time. Trials should always be conducted to determine such setting times.

Dispensing

The correct quantity of Structuro 485 should be measured by means of a pneumatic membrane pump or peristaltic pump. Normally, the admixture should then be added to the concrete with the mixing water to obtain the best results. Structuro 485 may also be added to concrete direct into a readymix truck. Full blending of the admixture and the concrete should be ensured by mixing at high speed for a period of at least two minutes. Fosroc shall be contacted for advice regarding suitable equipment and its installation.

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Application

The means of application of the concrete must be such that the concrete is not poured from a great height into moulds and form work. The use of a sleeve or forced filling is strongly recommended.

Estimating

Packaging

Structuro 485 is available in 200 litre drums.

Storage

Structuro 485 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 instructions

Structuro 485 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 485 is water based and non-flammable.

Cleaning and disposal

Spillages of Structuro 485 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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