

Cebex 430

constructive solutions

High performance superplasticising admixture

Uses

- To provide excellent acceleration of strength gain at early ages and major increases in strength at all ages by significantly reducing water demand in screed mix.
- To provide improved durability by increasing ultimate strengths and reducing screed permeability.
- In screeds it reduces the water content required to give suitable workability for placing and compaction.

Advantages

- Major increases in strength at early ages without increased cement contents are of particular benefit in precast screed, allowing earlier stripping times.
- Makes possible major reductions in water:cement ratio which allow the production of high strength screeds without excessive cement contents.
- Chloride free, safe for use in prestressed and reinforced screed.
- In screed material, the lower water content leads to quicker drying times

Description

Cebex 430 is a chloride free, superplasticising admixture based on selected sulphonated naphthalene polymers. It is supplied as a brown solution which instantly disperses in water.

Cebex 430 disperses the fine particles in the screed mix, enabling the water content of the screed to perform more effectively.

Typical dosage

The optimum dosage of Cebex 430 to meet specific requirements should always be determined by trials using the materials and conditions that will be experienced in use. This allows the optimisation of admixture dosage and mix design and provides a complete assessment of the screed mix. The normal dosage range is from 0.5 litre - 1litre per tonne of material. When using Cebex 430 it is advisable to reduce the retarder by half its current dosage.

Properties

Appearance:	Brown liquid
Specific gravity:	Typically 1.20 at 20°C
Chloride content:	Nil to BS 5075
Air entrainment:	Typically less than 2% additional air is entrained at normal dosages.
Alkali content:	Typically less than 72.0 g. Na ₂ O equivalent/litre of admixture. A fact sheet on this subject is available.

Instructions for use

Mix design

Where the primary intention is to improve drying times, initial trials should be made with normal screed mix designs. The addition of the admixture will allow the removal of water from the mix whilst maintaining the workability at the levels obtained before the use of the admixture. After initial trials, minor modifications to the overall mix design may be made to optimise performance.

Compatibility

Cebex 430 is compatible with other Fosroc admixtures used in the same screed mix. The resultant properties of screed containing more than one admixture should be assessed by the trial mix.

Cebex 430 is suitable for use with all types of Portland cements and cement replacement materials such as PFA, GGBFS and silica fume.

Dispensing

The correct quantity of Cebex 430 should be measured by means of a recommended dispenser. Normally, the admixture should then be added to the screed with the mixing water to obtain the best results.

Contact the Fosroc Customer Service Department for advice regarding suitable equipment and its installation.

Effects of overdosing

Overdosage may cause increased air entrainment, which will tend to reduce strength. The degree of this effect will depend on the particular mix design and overdose level.

An overdose will greatly increase the plasticising effect of the admixture. Increased initial workability will tend to extend the working life of the screed, which will delay finishing and stiffening times to some extent.

Cebex 430

Curing

As with all cementitious systems, good curing practice should be maintained. Curing is particularly important where retarded screeds or renders are used.

Estimating – packaging

Cebex 430 is available in 20 litre drums or bulk supply. For larger users, storage tanks can be supplied. Details of specific packaging volumes are available on request.

Storage

Cebex 430 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 the Fosroc Customer Service Department should be contacted for advice.

Freezing point: Approximately -2°C

Precautions

Health and safety

For further information consult the Material Safety Data Sheet available for this product.

Fire

Cebex 430 is water based and non-flammable.

Cebex is the trade mark of Fosroc International Limited



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