Flocrete SP30

Workability retention superplasticiser

Description

Flocrete SP30 is a high performance liquid concrete admixture formulated from selected polymers specially designed to enable the water content of the concrete to perform more effectively. This effect can be used to improve workability, to increase ultimate strengths or to facilitate reduction in the cement content while sustaining, and improving mix properties.

Applications

- To increase workability retention of fresh concrete.
- To improve cohesion, minimising segreg-ation and improving surface finish.
- To produce high quality concrete of improved durability and water tightness.

Advantages

- Higher strength with same cement content.
- Minimises segregation problems by improving cohesion.
- Improved workability, reduces placing and compaction problems.
- Cement saving without affecting strength.
- More durable concrete through reduced water to cement ratio and lower permeability.

Compatibility

Flocrete SP30 can be used with all types of Portland cement and cement replacement material. Flocrete SP30 is compatible with other DCP admixtures used in the same concrete mix. If more than one type of admixtures is to be used in the concrete mix, they must be dispensed to the concrete separately.

Standards

Flocrete SP30 complies with ASTM C494, Type G and BS5075, Part 3.

Method of Use

Flocrete SP30 should be added to the concrete with the mixing water to achieve optimum performance.

An automatic dispenser should be used to dispense the correct quantity of Flocrete SP30 to the concrete mix.

Technical Properties @ 25°C:	
Colour:	Brown liquid
Freezing point:	≈ -2°C
Specific gravity:	1.13 ± 0.01
Chloride content: BS5075	Nil
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages

Dosage

The guidance dosage of Flocrete SP30 is 0.60 - 1.50 litre/100 kg of cementitious materials in the mix, including GGBFS, PFA or microsilica.

Representative trials should be conducted to determine the optimum dosage of Flocrete SP30 to meet the performance requirements by using the materials and conditions in actual use.

Effects of Over Dosage

Over dosing of Flocrete SP30 will cause the following:

- Significant increase in retardation.
- Increase in workability.

Ultimate concrete strength will not be adversely affected and will generally be increased provided that proper concrete curing is maintained.

Setting Time

Although the setting time is dependent on the dosage of Flocrete SP30, the following factors should be considered:

i. Retardation is increased with lower levels of tri-calcium in the cement.
ii. Lower temperatures will delay the setting time.
iii. SRC cement gives higher retardation level than ordinary cement.
iv. Using more than one type of admixture in the same concrete mix could affect the setting time.
v. Retardation level is increased when cement replacement materials are used in the concrete mix.

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Cleaning

Flocrete SP30 can be washed with fresh cold water.

Packaging

Flocrete SP30 is available in 25 litre pails, 210 litre drums and 1000 litre bulks supply.

Storage

Flocrete SP30 has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 50°C.

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

Cautions

Health and Safety

Flocrete SP30 is not classified as hazardous material. Flocrete SP30 should not come into contact with skin and eyes.

In case of contact with eyes wash immediately with plenty of water and seek medical advice promptly.

For further information refer to the Material Safety Data Sheet.

Fire

Flocrete SP30 is nonflammable.

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A wide range of construction chemical products are manufactured by DCP which include:

- Concrete admixtures.
- Surface treatments
- Grouts and anchors.
- Concrete repair.
- Flooring systems.
- Protective coatings.
- Sealants.
- Waterproofing.
- Adhesives.
- Tile adhesives and grouts.
- Building products.
- Structural strengthening.

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