Flocrete SP124

High performance water reducing admixture for HSC

Description

Flocrete SP124 is high performance superplasticising admixture formulated from selected polymers specially designed to enable the water content of the concrete to perform more effectively.

This effect can be used in high strength concrete mixes to improve workability, to increase ultimate strengths or to facilitate a reduction in the cement content while sustaining and improving mix properties.

Applications

- To produce high quality concrete of improved durability and water tightness.
- Recommended for high strength concrete mixes.
- Improved cohesion allows for use in mass concrete pours and piling.

Advantages

- Improved workability reduces placing and compaction problems.
- Allowing for high strength concrete production without excessive cement contents.
- Cement saving without affecting strength.
- Minimising segregation and bleeding problems by improving cohesion.
- More durable concrete as a result of reduction in permeability and lower water to cement ratio.

Compatibility

Flocrete SP124 can be used with all types of Portland cement and cement replacement materials. Flocrete SP124 is compatible with other DCP admixtures used in the same concrete mix.

If more than one type of admixture is to be used in the concrete mix, they must be dispensed to the concrete separately.

Standards

Flocrete SP124 complies with BS EN 934-2 table 11.1 and 11.2 and with ASTM C494 type G.

Technical Properties @ 25°C:	
Colour:	Brown liquid
Freezing point:	≈ -1°C
Specific gravity:	1.23 ± 0.02
Air entrainment:	Less than 2% at normal dosage
Chloride content:	Nil

Method of Use

Flocrete SP124 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 SP124 to the concrete mix.

Dosage

The guidance dosage of Flocrete SP124 is 1.0 to 2.5 litre per 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 SP124 to meet the performance requirements by using the materials and conditions in actual use.

Effects of Over Dosage

Overdosing of Flocrete SP124 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 SP124, the following factors should be considered:

i. Retardation is increased with lower levels of tri-calcium in the cement.

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ii. Lower temperatures will delay the setting time.
iii. SRC cement gives higher retardation level than ordinary cement.
iv. Retardation level is increased when cement replacement materials are used in the concrete mix.

Cleaning

Flocrete SP124 can be washed with fresh cold water.

Packaging

Flocrete SP124 is available in 210 litre drums and 1000 litre bulks supply.

Storage

Flocrete SP124 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 SP124 is not classified as hazardous material. Flocrete SP124 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 SP124 is nonflammable.

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- 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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