

Flocrete FA

High range water reducing superplasticiser admixture



Description

Flocrete FA is 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 to improve workability, to increase ultimate strengths or to facilitate a reduction in the cement content while sustaining mix properties.

Applications

- ▲ Low water cement ratio, high strength concrete.
- ▲ To accelerate early strength development.
- ▲ To produce high quality concrete of improved durability and airtightness.
- ▲ Precast concrete.

Advantages

- ▲ High strength increase with same cement content.
- ▲ Earlier formwork stripping by increasing early strength.
- ▲ Improved workability, reduces placing and compaction problems.
- ▲ Cement saving without affecting concrete strength and workability.
- ▲ 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 FA can be used with all types of Portland cement and cement replacement materials. Flocrete FA 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 added to the concrete separately.

Standards

Flocrete FA complies with ASTM C494, Type A and F and BS 5075, Part 3.

Technical Properties @ 25°C:

Colour:	Brown liquid
Freezing point:	≈ -2°C
Specific gravity:	1.19 ± 0.02
Chloride content: BS 5075	Nil
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages

Method of Use

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

Dosage

The recommended dosage of Flocrete FA is 0.80 - 2.80 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 FA to meet the performance requirements by using the materials and conditions in actual use.

Effects of Over Dosage

Overdosage of Flocrete FA 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 FA, the following factors should be considered:

- Retardation is increased with lower levels of tricalcium in the cement.
- Lower temperatures will delay the setting time.

Flocrete FA

- iii. SRC cement gives higher retardation levels 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.

Cleaning

Flocrete FA can be washed with fresh cold water.

Packaging

Flocrete FA is available in 25 litre pails.

Storage

Flocrete FA 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, contact DCP Technical Department for advice.

Cautions

Health and Safety

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

In case of contact with eyes, immediately flush with plenty of water and seek medical attention.

For further information, refer to the Material Safety Data Sheet.

Fire

Flocrete FA 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.

Note:

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