

Flocrete SP620M

High performance water reducing admixture for HSC



Description

Flocrete SP620M 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

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

Advantages

- ▲ Allowing for high strength concrete production without excessive cement contents.
- ▲ Improved workability reduces placing and compaction problems.
- ▲ 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 SP620M can be used with all types of Portland cement and cement replacement materials. Flocrete SP620M 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 SP620M complies with BS EN 934-2 : 1998 and ASTM C494, Type G.

Method of Use

Flocrete SP620M should be added to the concrete with the mixing water to achieve optimum performance.

Technical Properties @ 25°C:

Colour:	Brown liquid
Freezing point:	≈ -1°C
Specific gravity:	1.17 ± 0.02
Chloride content: BS 5075	Nil
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages

An automatic dispenser should be used to dispense the correct quantity of Flocrete SP620M to the concrete mix.

Dosage

The guidance dosage of Flocrete SP620M is 1.0 - 2.8 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 SP620M to meet the performance requirements by using the materials and conditions in actual use.

Effects of Over Dosage

Overdosing of Flocrete SP620M 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 SP620M, the following factors should be considered:

- Retardation is increased with lower levels of tri-calcium in the cement.
- Lower temperatures will delay the setting time.
- SRC cement gives higher retardation level than ordinary cement.

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- 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 SP620M can be washed with fresh cold water.

Packaging

Flocrete SP620M is available in 25 litre pails, 210 litre drums and 1000 litre bulks supply.

Storage

Flocrete SP620M 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 SP620M is not classified as hazardous material. Flocrete SP620M 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 SP620M is nonflammable.

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- ▲ Tile adhesives and grouts.
- ▲ Building products.
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Note:

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