

Flocrete SP91

High range water reducing admixture with workability retention properties



Description

Flocrete SP91 is 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.

Flocrete SP91 has strong workability retention which helps in long distance and hot weather concrete deliveries, and is particularly suitable for ready-mix concrete.

Applications

- ▲ Long distance and hot weather concrete deliveries.
- ▲ Where high workability retention and retardation are of prime importance.
- ▲ To produce high quality concrete of improved durability and water tightness.

Advantages

- ▲ Higher strength with same cement content.
- ▲ Minimising segregation problems by improving cohesion.
- ▲ Excellent slump retention properties.
- ▲ Improved workability reduces placing and compaction problems.
- ▲ Cold joints can be avoided by extending initial and final concrete setting time.
- ▲ Saving cement without affecting strength specifications.
- ▲ More durable concrete by considerable reduction in permeability.

Compatibility

Flocrete SP91 can be used with all types of Portland cement and cement replacement materials. Flocrete SP91 is compatible with other DCP admixtures used in the same concrete mix.

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

Technical Properties @ 25°C:

Colour:	Brown liquid
Freezing point:	≈ -2°C
Specific gravity:	1.16 ± 0.02
Chloride content: BS5075	Nil
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages

Standards

Flocrete SP91 complies with EN 934-2, Table 11.1 and ASTM C494, Type B, D & G, depending on the dose.

Method of Use

Flocrete SP91 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 SP91 to the concrete mix.

Dosage

The guidance dosage is between 0.80 - 2.10 litres per 100 kg of cementitious materials in the mix, including GGBFS, PFA or microsilica.

Effects of Over Dosage

Flocrete SP91 over dosage 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 SP91, the following factors should be considered:

Flocrete SP91

- i. Retardation is increased with a lower level 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.

Cleaning

Flocrete SP91 can be washed immediately by cold water.

Packaging

Flocrete SP91 is available in 25 litre pails, 210 litre drums and 1000 litre bulk supply.

Storage

Flocrete SP91 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 SP91 is not classified as hazardous material. Flocrete SP91 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 SP91 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:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

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