

# Flocrete SP34

Workability retention superplasticiser



## Description

Flocrete SP34 is a 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 a reduction in the cement content while sustaining mix properties.

Flocrete SP34 is also available in winter grade Flocrete SP34W with enhanced early strength development and in summer grade Flocrete SP34S with enhanced slump retention properties.

## Applications

- ▲ To increase workability retention of fresh concrete.
- ▲ To improve cohesion, minimizing segregation and improving surface finish.
- ▲ To produce high quality concrete of improved durability and water tightness.

## Advantages

- ▲ Higher strength with same cement content.
- ▲ Minimising segregation problems by improving cohesion.
- ▲ Improved workability reduces placing and compaction problems.
- ▲ Saving cement without affecting strength specifications.
- ▲ More durable concrete by considerable reduction in permeability.

## Compatibility

Flocrete SP34 can be used with all types of Portland cement and cement replacement materials. Flocrete SP34 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.

## Standards

Flocrete SP34 complies with ASTM C494, Type G, EN 934-2, Tables 11.1 and 11.2 and BS 5075, Part 3.

## Technical Properties @ 25°C:

Colour:	Dark brown liquid
Freezing point:	≈ -2°C
Specific gravity:	1.20 ± 0.03
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 SP34 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 SP34 to the concrete mix.

## Dosage

The guidance dosage of Flocrete SP34 is 0.35 - 1.50 kg 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 SP34 to meet the performance requirements by using the materials and conditions that will be experienced in use.

## Effects of Over Dosage

Flocrete SP34 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 SP34, the following factors should be considered:

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- i. Retardation is increased with a lower level of tricalcium in the cement.
- ii. Lower temperatures will delay the setting time.
- iii. Sulfate resisting 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 SP34 can be washed immediately by cold water.

## Packaging

Flocrete SP34 is available in 25 litre pails, 210 litre drums and 1000 litre bulks supply.

## Storage

Flocrete SP34 has a shelf life of 12 months from date of manufacture if stored at a temperature within 2°C to 50°C.

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

## Cautions

### Health and Safety

Flocrete SP34 is not classified as a hazardous material. Flocrete SP34 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 SP34 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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