

# Flocrete SP159

High range water reducing admixture with workability retention properties



## Description

Flocrete SP159 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 SP159 has strong workability retention which helps in long distance and hot weather concrete deliveries, and is particularly suitable for ready-mix concrete.

## Applications

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

## Advantages

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

## Compatibility

Flocrete SP159 can be used with all types of Portland cement and cement replacement materials. Flocrete SP159 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:	Dark brown liquid
Freezing point:	≈ -2°C
Specific gravity:	1.19 ± 0.02
Chloride content:	Nil
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages

## Standards

Flocrete SP159 complies with ASTM C494, Type G.

## Method of Use

Flocrete SP159 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 SP159 to the concrete mix.

## Dosage

The guidance dosage is between 0.5 - 2.5% of cementitious materials in the mix, including GGBFS, PFA or microsilica.

## Effects of Over Dosage

Flocrete SP159 over dosage will cause the following:

- ▲ 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 SP159, the following factors should be considered:

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- i. Retardation is increased with a lower level of tri-calcium 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 SP159 can be washed immediately by cold water.

## Packaging

Flocrete SP159 is available in 25 litre pails, 210 litre drums and 1000 litre bulks supply.

## Storage

Flocrete SP159 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 SP159 is not classified as hazardous material. Flocrete SP159 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 SP159 is nonflammable.

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A wide range of construction chemical products are manufactured by DCP which include:

- ▲ 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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#### Note:

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