

Flocrete SP33

High range water reducing superplasticiser admixture



DESCRIPTION

Flocrete SP33 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 after tightness.
- » 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.
- » Reduced shrinkage and creep in the hardened state of the concrete.

COMPATIBILITY

Flocrete SP33 is suitable to use with all types of Portland cement and cement replacement materials. Flocrete SP33 is compatible with other DCP's 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 SP33 complies with ASTM C494 as Type A & F, as well as BS EN 934-2.

TECHNICAL PROPERTIES @ 25°C:

Colour:	Brown liquid
Freezing point:	≈ -2°C
Specific gravity:	1.21 ± 0.023
Chloride content: EN 934-2	Nil
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages

METHOD OF USE

Flocrete SP33 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 SP33 to the concrete mix.

DOSAGE

The recommended dosage of Flocrete SP33 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 SP33 to meet the performance requirements by using the materials and conditions in actual use.

EFFECTS OF OVER DOSAGE

Overdosage of Flocrete SP33 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.



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SETTING TIME

Although the setting time is dependent on the dosage of Flocrete SP33, the following factors should be considered:

- i. Retardation is increased with lower levels of tri-calcium in the cement.
- ii. Lower temperatures will delay the setting time.
- 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

Clean Flocrete SP33 with fresh cold water.

PACKAGING

Flocrete SP33 is available in 25 litre pails, 210 litre drums and 1000 litre bulks supply.

STORAGE

Flocrete SP33 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 SP33 not classified as a hazardous material. Flocrete SP33 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 SP33 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.

Note:

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