

# Flocrete® SP3002

Workability retention admixture for concrete mixes



## DESCRIPTION

Flocrete SP3002 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 SP3002 has good workability retention which helps in long distance concrete deliveries.

## APPLICATIONS

- » Long distance concrete deliveries.
- » Where high workability retention with limited retardation is of prime importance.
- » To produce high quality concrete of improved durability and water tightness.

## ADVANTAGES

- » Higher strength with same cement content.
- » Minimizing segregation problems by improving cohesion.
- » 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 SP3002 is suitable to use with all types of Portland cement and cement replacement materials. Flocrete SP3002 is compatible with other DCP admixtures used in the same concrete mix.

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

## STANDARDS

Flocrete SP3002 complies with ASTM C494, Type B, D and G and EN 934-2.

## METHOD OF USE

Flocrete SP3002 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 SP3002 to the concrete mix.

## TECHNICAL PROPERTIES:

Colour:	Light/ dark yellow liquid
Freezing point:	-2°C
Specific gravity:	1.05 ± 0.02
Chloride content:	Nil
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages

## DOSAGE

The recommended dosage of Flocrete SP3002 is 0.3 - 2.0 litres 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 SP3002 to meet the performance requirements by using the materials and conditions that will be experienced in use.

## EFFECTS OF OVERDOSAGE

Overdosage of Flocrete SP3002 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 SP3002, the following factors should be considered:

- Retardation is increased with lower levels of tricalcium in the cement.
- Lower temperatures will delay the setting time.
- SRC cement gives higher retardation level than ordinary cement.
- Using more than one type of admixture in the same concrete mix could affect the setting time.
- Retardation level is increased when cement replacement materials are used in the concrete mix.

## Don Construction Products

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# Flocrete® SP3002

## CLEANING

Clean Flocrete SP3002 with fresh cold water.

## PACKAGING

Flocrete SP3002 is available in 1000 litre bulks.

## STORAGE

Flocrete SP3002 has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 35°C.

If these conditions are exceeded, contact DCP Technical Department for advice.

## CAUTIONS

## HEALTH AND SAFETY

Flocrete SP3002 is not classified as a hazardous material. Flocrete SP3002 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 SP3002 is nonflammable.

## MORE FROM DON CONSTRUCTION PRODUCTS

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:

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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