

Flocrete SP42W

High range water reducing admixture with workability retention properties



Description

Flocrete SP42W 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 SP42W has strong workability retention which helps in long distance and hot weather concrete deliveries, and is particularly suitable for ready-mix concrete.

Applications

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

Advantages

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

Compatibility

Flocrete SP42W is suitable to use with all types of Portland cement and cement replacement materials. Flocrete SP42W 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:	1.19 ± 0.03
Chloride content:	Nil
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages

Standards

Flocrete SP42W complies with ASTM C494, Type B, F and G, depending on the dose.

Method of Use

Flocrete SP42W 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 SP42W to the concrete mix.

Dosage

The recommended dosage is between 0.90 - 3.00 litre per 100 kg of cementitious materials in the mix, including GGBFS, PFA or microsilica.

Effects of Over Dosage

Overdosage of Flocrete SP42W 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.

DCP Saudi Co.

Sulay industrial area,
Riyadh, Saudi Arabia

info.ksa@dcp-int.com

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Setting Time

Although the setting time is dependent on the dosage of Flocrete SP42W, the following factors should be considered:

- i. Retardation is increased with a lower level of tricalcium 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

Clean Flocrete SP42W immediately by cold water.

Packaging

Flocrete SP42W is available in 25 litre pails, 210 litre drums and 1000 litre bulks supply.

Storage

Flocrete SP42W 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 SP42W is not classified as a hazardous material. Flocrete SP42W 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 SP42W 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.

