

Flocrete RP300

Retarding and water reducing admixture



Description

Flocrete RP300 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 RP300 has retarding property, this effect can be used to overcome transportation delay problems and where long setting time is required.

Applications

- ▲ Long concrete deliveries.
- ▲ Hot weather concreting.
- ▲ Where high workability retention and retardation are required.
- ▲ To produce high quality concrete of improved durability and water tightness.
- ▲ To improve cohesion in concrete mixes.

Advantages

- ▲ Improved workability, reduces placing and compaction problems.
- ▲ Cold joints can be avoided by extending initial and final concrete setting time.
- ▲ Higher strength with same cement content.
- ▲ Cement saving without affecting strength.
- ▲ More durable concrete as a result of reduction in permeability and lower water to cement ratio.

Compatibility

Flocrete RP300 can be used with all types of Portland cement and cement replacement materials.

Flocrete RP300 is compatible with other DCP admixtures used in the same concrete mix. If more than one type of admixture is to be used in concrete mix, they must be dispensed to the concrete separately.

Standards

Flocrete RP300 complies with ASTM C494 Type B & D and with BS 5075 Part 1.

Technical Properties @ 25°C:

Colour:	Brown liquid
Freezing point:	-2°C
Specific gravity:	1.21 ± 0.05
Chloride content: BS5075	Nil
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages

Method of Use

Flocrete RP300 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 RP300 to the concrete mix.

Dosage

The guidance dosage of Flocrete RP300 is 0.30 to 0.70 litre per 100kg of cementitious materials in the mix, including GGBFS, PFA or microsilica.

Representative trials should be conducted to determine the optimum dosage of Flocrete RP300 to meet the performance requirements by using the materials and conditions in actual use.

Effects of Over Dosage

Over dosing of Flocrete RP300 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 RP300, the following factors should be considered:

Flocrete RP300

- i. Retardation is increased with lower levels 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

Flocrete RP300 can be washed with fresh cold water.

Packaging

Flocrete RP300 is available in 25 litre pails, 210 litre drums and 1000 litre bulks supply.

Storage

Flocrete RP300 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 RP300 is not classified as hazardous material. Flocrete RP300 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 RP300 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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