

# Flocrete RP170

Retarding and water reducing admixture



## Description

Flocrete RP170 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 RP170 has retarding property, this effect can be used to overcome transportation delay problems and where long setting time is required.

## Applications

- ▲ Hot weather concreting.
- ▲ Where high workability retention and retardation are required.
- ▲ Long concrete deliveries.
- ▲ 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 RP170 is suitable to use with all types of Portland cement and cement replacement materials. Flocrete RP170 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.

## Technical Properties @ 25 °C:

Colour:	Dark brown liquid
Freezing point:	-2°C
Specific gravity:	1.14 ± 0.02
Chloride content:	Nil
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages

## Standards

Flocrete RP170 complies with ASTM C494, Type B and D.

## Method of Use

Flocrete RP170 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 RP170 to the concrete mix.

## Dosage

The recommended dosage of Flocrete RP170 is 0.20 - 1.20 liters per 100 kg of cementitious materials in the mix, including GGBFS, PFA or microsilica.

## Effects of Over Dosage

Overdosage of Flocrete RP170 over dosage 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 RP170, the following factors should be considered:

- ▲ Retardation is increased with lower levels of tri-calcium 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.

## Cleaning

Clean Flocrete RP170 with fresh cold water.

## Packaging

Flocrete RP170 is available in 25 litre pails, 210 litre drums and 1000 litre bulks supply.

## Storage

Flocrete RP170 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 RP170 is not classified as a hazardous material. Flocrete RP170 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 RP170 is nonflammable.

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- ▲ 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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