

Flocrete RP63

Plasticizer and retarder admixture



Description

Flocrete RP63 is formulated from special selected polymers specially designed to enable the water content from concrete to perform more effectively.

This effect can be used to improve workability, to increase the final resistance of concrete or to facilitate the reduction of cement content from concrete receipt.

Flocrete RP63 has retarding property and this effect can be used to overcome transportation delay problems and where long setting time is requested.

Applications

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

Advantages

- ▲ Improved workability and slump maintaining of concrete mixes in hot weather concreting.
- ▲ Cold joints can be avoided by extending the concrete setting time
- ▲ Higher strength with same cement content.
- ▲ Cement saving without affecting the compression strength.
- ▲ More durable concrete as a result of lower water cement ratio.

Compatibility

Flocrete RP63 can be used with all Portland cement types and cement replacements materials. Flocrete RP63 is compatible with other DCP admixtures used in the same concrete mix.

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

Standards

Flocrete RP63 complies with SR EN 934-2, ASTM C494, Type B & D and BS 5075, Part 1.

Technical Properties @ 20°C:

Colour:	Dark brown liquid
Freezing point:	-2°C
Specific gravity:	1.13 ± 0.01
Chloride content:	Nil
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages

Method of Use

Flocrete RP63 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 RP63 to the concrete mix.

Dosage

The guidance dosage of Flocrete RP63 is between 0.3 - 0.8 kg per 100 kg of cementitious materials in the mix, including GGBFS, PFA and microsilica.

Representative trials should be conducted to determine the optimum dosage of Flocrete RP63 to meet the performance requirements by using the materials and conditions in actual use.

Effects of Over Dosage

Over dosing of Flocrete RP63 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.

Flocrete RP63

Setting Time

Although the setting time is dependent on the dosage of Flocrete RP63, 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 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

Flocrete RP63 can be washed with fresh cold water.

Packaging

Flocrete RP63 is available in 1000 litre bulks supply.

Storage

Flocrete RP63 has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 30°C.

If these conditions are exceeded, DCP Technical Department should be contacted for advise.

Cautions

Health and Safety

Flocrete RP63 is not classified as hazardous material. Flocrete RP65 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 RP63 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.

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.

