

Flocrete SP40

High range workability retention concrete admixture



Description

Flocrete SP40 is a high performance liquid concrete admixture 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 and to increase ultimate strengths by the very high levels of water reduction in the concrete mix. Flocrete SP40 has strong workability retention which helps in long distance and hot weather concrete deliveries, and is particularly suitable for ready-mix concrete.

Applications

- ▲ To increase workability retention of fresh concrete.
- ▲ To provide increased ultimate strength by reducing water demand in concrete mixes.
- ▲ To produce high quality concrete of improved durability by reducing permeability.
- ▲ Long distance and hot weather concrete deliveries.

Advantages

- ▲ Higher strength with same cement content.
- ▲ Minimising segregation problems by improving cohesion.
- ▲ Improved workability reduces placing and compaction problems.
- ▲ Cement saving without affecting strength.
- ▲ More durable concrete as a result of reduction in permeability and lower water to cement ratio.
- ▲ Chloride free.

Compatibility

Flocrete SP40 can be used with all types of Portland cement and cement replacement materials.

Flocrete SP40 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 concrete mix, they must be dispensed to the concrete separately.

Standards

Flocrete SP40 complies with ASTM C494, Type B, D and G, depending on dosage used.

Technical Properties @ 25°C:

| | |
|------------------------------|--|
| Colour: | Brown liquid |
| Freezing point: | ≈ -2°C |
| Specific gravity: | 1.14 ± 0.02 |
| Chloride content: BS 5075 | Nil |
| Air entrainment: | Typically less than 2% additional air is entrained above control mix at normal dosages |

Method of Use

Flocrete SP40 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 SP40 to the concrete mix.

Dosage

For normal strength concrete, a dosage between 0.80 – 1.75 litre/100 kg of cementitious materials in the mix, including GGBFS, PFA or microsilica. For high strength concrete dosage between 1.0 – 2.75 litre/100 kg of cementitious materials in the mix.

Effects of Over Dosage

Over dosing of Flocrete SP40 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 SP40, 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.

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- 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 SP40 can be washed with fresh cold water.

Packaging

Flocrete SP40 is available in 25 litre pails, 210 litre drums and 1000 litre bulks supply.

Storage

Flocrete SP40 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 SP40 is not classified as hazardous material. Flocrete SP40 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 SP40 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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