

Flocrete W55

Integral waterproofing admixture



Description

Flocrete W55 is liquid concrete waterproofing admixture formulated from selected polymers specially designed to reduce the concrete water permeability by reducing capillary voids within the concrete, which will last for the life of the concrete.

Applications

- ▲ To produce concrete with lower permeability.
- ▲ For water retaining structures and concrete substructures.

Advantages

- ▲ Minimizing segregation problems by improving cohesion.
- ▲ Improved workability reduces placing and compaction problems.
- ▲ More durable concrete due to lower permeability.

Compatibility

Flocrete W55 can be used with all types of Portland cement and cement replacement materials. Flocrete W55 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 W55 complies with ASTM C494, Type A and BS 5075, Part 1.

Method of Use

Flocrete W55 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 W55 to the concrete mix.

Dosage

The guidance dosage of Flocrete W55 is 0.50 - 0.80 litre per 100 kg of cementitious materials in the mix, including GGBFS, PFA or microsilica.

Technical Properties @ 25°C:

Colour:	Brown liquid
Freezing point:	≈ -2°C
Specific gravity:	1.18 ± 0.01
Chloride content: BS 5075	Nil
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages

Representative trials should be conducted to determine the optimum dosage of Flocrete W55 to meet the performance requirements by using the materials and conditions in actual use.

Effects of Over Dosage

Over dosing of Flocrete W55 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.

Points to be considered in waterproof concrete

- Lower water to cement ratio gives lower permeability concrete.
- Good concrete placing and compaction are very important to produce waterproof concrete.
- Fresh concrete should be protected against rapid drying and cured properly.
- Cold joints must be avoided.

Cleaning

Flocrete W55 can be washed with fresh cold water.

Packaging

Flocrete W55 is available in 25 litre pails, 210 litre drums and 1000 litre bulks supply.

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Storage

Flocrete W55 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 W55 is not classified as hazardous material. Flocrete W55 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 W55 is nonflammable.

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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