

# Flocrete W50

High performance permeability and absorption reducing admixture



## DESCRIPTION

Flocrete W50 is a liquid concrete admixture formulated from selected organic materials specially designed to produce hydrophobic properties when mixed with concrete. These hydrophobic materials will repel external water and reduce the permeability of concrete.

## APPLICATIONS

Flocrete W50 in combination with Flocrete W52 or other high performance super plasticiser from DCP will produce high quality concrete of improved durability by reducing concrete permeability and water absorption.

## ADVANTAGES

- » More durable concrete, lower in permeability.
- » Provides concrete protection through out the concrete depth.
- » Enhanced water penetration and water absorption resistance.
- » Chloride and bitumen free.

## COMPATIBILITY

Flocrete W50 is suitable to use with all types of Portland cement and cement replacement materials. Flocrete W50 is compatible with Flocrete W52 and other DCP high range water reducing admixtures when 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.

## METHOD OF USE

Flocrete W50 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 W50 to the concrete mix.

## DOSAGE

The recommended dosage of Flocrete W50 is 1.0 - 2.30 litre per 100 kg of cementitious materials in the mix, including GGBFS, PFA or microsilica.

Representative trials should be conducted to determine the optimum dosage of Flocrete W50 to meet the performance requirements by using the materials and conditions in a actual use.

## TECHNICAL PROPERTIES @ 25°C:

Colour:	Clear to yellowish liquid
Freezing point:	≈ 0°C
Specific gravity:	1.02 ± 0.01
Chloride content: BS 5075	Nil
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages

Test	Performance relative to control
Water penetration* @ 5 bars pressure, 3 days: EN 12390-8 DIN 1048	≥ 60% reduction
Water absorption* @ 28 days, dry curing: ASTM C642	≥ 20% reduction

*\*The above results was developed under controlled laboratory conditions with materials meeting the specifications of the stated ASTM/DIN/EN methods. Dosage response in the field may vary depending on the materials, mix design, mixing methods, temperature, and site conditions.*

## POINTS TO BE CONSIDERED IN WATERPROOF CONCRETE

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

## CLEANING

Clean Flocrete W50 with fresh cold water.

## PACKAGING

Flocrete W50 is available in 25 litre pails, 210 litre drums and 1000 litre bulks supply.



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## STORAGE

Flocrete W50 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 W50 is not classified as a hazardous material. Flocrete W50 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 W50 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.