

Donplast W50

High-performance permeability and absorption reducing admixture (Formerly known as Flocrete W50)



DESCRIPTION

Donplast 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

- » Tunnels, subways and manholes.
- » Water retaining structures.
- » Underground concrete constructions.
- » Parking structures.
- » Concrete floors.

ADVANTAGES

- » Produces more durable concrete, lower in permeability.
- » Provides concrete protection throughout the concrete depth.
- » Enhanced water penetration and water absorption resistance.
- » Chloride and bitumen-free.

COMPATIBILITY

Donplast W50 is suitable to use with all types of Portland cement and cement replacement materials. Donplast W50 can be used in combination other DCP admixtures to achieve specific working requirements.

For more information, please consult DCP's Technical Department.

METHOD OF USE

Donplast 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 Donplast W50 to the concrete mix.

DOSAGE

The recommended dosage of Donplast W50 is 15 to 35 fl oz/100 lb (975 - 2,275 ml/100 kg) of cement or cementitious materials in the mix including GGBFS, PFA or micro-silica.

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

TECHNICAL PROPERTIES @ 77°F (25°C):

Form:	Light yellow liquid
Specific gravity:	1.02 ± 0.02
Freezing point:	32°F (0°C)
Chloride content:	Chloride-free

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 WATERTIGHT CONCRETE MIXES

- The lower water-to-cement ratio gives lower permeability concrete.
- Good concrete placing and compaction are essential to produce a watertight concrete.
- Fresh concrete should be protected against rapid drying and cured properly.
- Cold joints must be avoided.

CLEANING

Clean Donplast W50 with fresh cold water.

PACKAGING

Donplast W50 is available in 5 gal (19 litre) containers as well as 275 gal (1,041 litre) and 330 gal (1,249 litre) IBC totes. Bulk supply in tanker trucks is also available upon request.



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STORAGE

Donplast W50 has a shelf life of 12 months from date of manufacture if stored at temperatures between 35°F and 122°F (2°C and 50°C).

If these conditions are exceeded, contact DCP Technical Department for advice.

CAUTIONS

HEALTH AND SAFETY

Donplast W50 is not classified as a hazardous material. Donplast 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

Donplast W50 is nonflammable.

WARRANTY

Unless expressly stated otherwise in the Sales Documents, the Limited Warranty shall expire on the expiry date listed on the Product's label or packaging. The full text of DCP's limited warranty is found in DCP's standard terms and conditions of sale (the "Terms"), which are available at [DCP Website/USA – Terms & Conditions](#). DCP's limited warranty is in all cases subject to, and conditioned upon, the Terms.

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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.

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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.

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