

Donplast® PC222

New generation hyperplasticising admixture for extended slump retention
(Formerly known as Hyperplast PC222)



DESCRIPTION

Donplast PC222 is a water reducing admixture with excellent slump retaining properties based on polycarboxylic polymers with selective additives which are especially formulated to enable the water content of the concrete to perform in a more effective manner.

This effect can be used in ready-mix concrete where slump retention, high strength and durability are required in hot climates or where it is required to keep the water-cement ratio at a minimum level and to maintain excellent workability.

APPLICATIONS

Donplast PC222 can be successfully used in the following applications:

- » Use in concrete where extended workability without retardation is required.
- » Acts as high range water reducer for the production of high strength and high performance concrete.
- » Suitable for normal weight and light weight concrete.
- » In ready-mix, precast and pre-stressed applications.
- » Production of self-levelling concrete.
- » Mass-concrete pours.

ADVANTAGES

- » Increased compressive and flexural strength.
- » Excellent slump retention.
- » Optimizes cement utilization.
- » Better durability and impermeable concrete.
- » Improves shrinkage and creep behaviors.

COMPATIBILITY

Donplast PC222 is suitable to use with all types of Portland cement and cement replacement materials. Donplast PC222 should not be used in conjunction with other admixtures unless DCP's Technical Department approval is obtained.

STANDARDS

Donplast PC222 complies with ASTM C494, Type A and F, depending on the used dosage.

TECHNICAL PROPERTIES @ 77°F (25°C):

Color:	Yellowish to brownish liquid
Specific gravity:	1.08 ± 0.02
pH:	5 - 7
Chloride content:	Chloride-free

METHOD OF USE

Donplast PC222 can be added with the initial water or as a delayed addition to wetted concrete for optimum performance. Different sequencing may be used if local testing shows better performance.

An automatic dispenser should be used to dispense the correct quantity of Donplast PC222 to the concrete mix.

DOSAGE

The recommended dosage of Donplast PC222 is 5 to 23 fl oz/100 lb (326 - 1500 ml/100 kg) of cement or cementitious materials in the mix including GGBFS, PFA or micro-silica.

Representative trials should be first conducted to determine the optimum dosage of Donplast PC222 to meet the performance requirements by using the materials and conditions in actual use.

EFFECTS OF OVER DOSAGE

Overdosage of Donplast PC222 will cause the following:

- » Increase in workability.

Ultimate concrete strength will not be adversely affected and will generally be increased provided that proper concrete curing is maintained.

CLEANING

Clean Donplast PC222 with fresh cold water.

PACKAGING

Donplast PC222 is available in 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 PC222 has a minimum 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 PC222 is not classified as a hazardous material. Donplast PC222 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 PC222 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.

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.

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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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