

# Donplast HC4

Cement hydration controlling admixture



## DESCRIPTION

Donplast HC4 is a liquid admixture formulated from selected polymers specially designed to retard the setting time by controlling the hydration process of Portland cement and other cementitious materials for long time. This effect can be used to keep concrete mixes workable for long time starting from 3 hours until 3 days.

## APPLICATIONS

- » For wet type shotcrete.
- » For long-distance concrete delivery.
- » High-performance concrete.
- » Concrete wash water stabilisation.
- » To avoid setting of concrete in transit mixers in case of an accident.

## ADVANTAGES

- » Reduces concrete waste in case of changing concrete casting schedule.
- » Excellent retardation for long time up to 3 days.
- » Excellent slump retention for very long concrete deliveries.
- » Saves transit mixers drums in case of accidents.
- » Reduces the needed amount of water to clean the transit mixer.
- » Chloride-free.

## COMPATIBILITY

Donplast HC4 is suitable for use with all types of Portland cement and cement replacement materials. Donplast HC4 is compatible with other DCP admixtures used in the same concrete mix.

If more than one type of admixture is to be used, they must be dispensed into the mix separately.

## STANDARDS

Donplast HC4 complies with the requirements of Specification for Chemical Admixture for Concrete ASTM C494 as a Type B and D admixture.

## METHOD OF USE

Donplast HC4 should be added to the concrete with the mixing water to achieve optimum performance. Also it can be added directly to the drum of concrete mixers when unplanned changes in concrete casting schedule.

## TECHNICAL PROPERTIES @ 25°C:

Color:	Clear to slightly yellowish liquid
Specific gravity:	1.11 ± 0.02
pH:	6 - 9
Chloride content:	Chloride-free

## DOSAGE

The recommended dosage of Donplast HC4 is between 50 to 2,300 ml per 100 kg of cementitious materials in the mix, including GGBFS, PFA or micro-silica.

Actual dosage depends on the desired retardation. Representative trials should first be conducted to determine the optimum dosage of Donplast HC4 to meet the performance requirements by using the materials and conditions in actual use.

## EFFECTS OF OVERDOSAGE

Overdosage of Donplast HC4 will cause the following:

- » Significant increase in retardation.
- » Increase in workability.

## CLEANING

Clean Donplast HC4 with fresh cold water.

## PACKAGING

Donplast HC4 is available in 25 litre pails, 210 litre drums and 1000 litre bulks supply.

## STORAGE

Donplast HC4 has a minimum shelf life of 12 months from date of manufacture if stored properly in its original unopened packing at temperatures between 2°C and 50°C.

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

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## CAUTIONS

### HEALTH AND SAFETY

Donplast HC4 is not classified as a hazardous material. Donplast HC4 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 HC4 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.

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