Donplast® HC3

Cement hydration controlling admixture (Formerly known as Flocrete HC3)

DESCRIPTION

Donplast HC3 is a liquid admixture formulated from selected polymers specially designed to delay the setting time by controlling the hydration process of Portland cement and other cementitious materials.

This effect can be used to keep concrete mixes workable up to 3 days.

APPLICATIONS

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

ADVANTAGES

- Excellent hydration control for a long time up to 3 days.
- Excellent slump retention for extended delivery times.
- Saves transit mixer drums in case of accidents.
- Reduces the needed amount of wash water to rinse mixer.

COMPATIBILITY

Donplast HC3 is suitable to use with all types of Portland cement and cement replacement materials. Donplast HC3 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 HC3 complies with the requirements of Specification for Chemical Admixture for Concrete ASTM C494 as a Type B and D admixture.

METHOD OF USE

Donplast HC3 can be added at any time during the batching sequence but optimal performance is achieved after cementitious material is wet.

TECHNICAL PROPERTIES @ 77°F (25°C):	
Color:	Clear liquid
Specific gravity:	1.06 ± 0.02
pH:	6 - 9
Chloride content:	Chloride-free

DOSAGE

The recommended dosage of Donplast HC3 is between 0.5 to 35 fl.oz/cwt of cementitious materials, including GGBFS, PFA or micro-silica. Actual dosage depends on the desired retardation. For ASTM C494 Type D compliance the dosage range is 9.5 - 12 fl.oz/cwt.

Representative trials should first be conducted to determine the optimum dosage of Donplast HC3 to meet the performance requirements by using the materials and conditions in actual use.

EFFECTS OF OVER DOSAGE

Overdosage of Donplast HC3 will cause the following:

- Significant increase in set time.
- Increase in workability.

CLEANING

Clean Donplast HC3 with fresh cold water.

PACKAGING

Donplast HC3 is available in 5 gal (19 litre) as well as 275 gal (1,041 litre) containers. Bulk supply in tanker trucks is also available upon request.

STORAGE

Donplast HC3 has a minimum shelf life of 12 months from date of manufacture if stored properly in its original unopened packing at temperatures between 35°F and 122°F (2°C and 50°C).

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

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CAUTIONS

HEALTH AND SAFETY

Donplast HC3 is not classified as a hazardous material.
Donplast HC3 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 HC3 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 chemicals 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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