

# Donplast HC-ST

Cement hydration controlling admixture (Formerly known as Flocrete HC-ST)



## Description

Donplast HC-ST 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 a 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 stabilization.
- ▲ To avoid setting of concrete in transit mixers in case of an accident.

## Advantages

- ▲ Reduce 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.
- ▲ Saving transit mixers drums in case of accident.
- ▲ Reduce the needed amount of water to clean the transit mixer.
- ▲ Chloride-free.

## Compatibility

Donplast HC-ST is suitable for use with all types of Portland cement and cement replacement materials. Donplast HC-ST is compatible with other DCP's 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 HC-ST complies with the requirements of Specification for Chemical Admixture for Concrete ASTM C494 as a Type B admixture.

## Technical Properties @ 77°F (25°C):

Colour:	Yellowish liquid
Specific gravity:	1.10 ± 0.03
pH:	2 - 4
Chloride content:	Chloride-free

## Method of Use

Donplast HC-ST 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.

## Dosage

The recommended dosage of Donplast HC-ST is between 0.75 to 38 fl oz/100 lb (50 to 2,470 ml/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 HC-ST to meet the performance requirements by using the materials and conditions in actual use.

For traditional compliance with ASTM C494, the recommended dosage is between 0.75 to 5 fl oz/100 lb (50 - 325 ml/ 100 kg) of cementitious materials in the mix.

## Effects of Over Dosage

Overdosage of Donplast HC-ST will cause the following:

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

## Cleaning

Clean Donplast HC-ST with fresh cold water.

## Packaging

Donplast HC-ST 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 HC-ST has a 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, contact DCP Technical Department for advice.

## Cautions

### Health and Safety

Donplast HC-ST is an irritant fluid. Contact with skin and eyes must be avoided. Safety glasses and rubber gloves must be worn during handling. In case of contact with eyes or skin, immediately flush with plenty of water and seek medical attention.

For further information, refer to the Material Safety Data Sheet.

## Fire

Donplast HC-ST is nonflammable.

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- ▲ Concrete repair.
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- ▲ Adhesives.
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- ▲ Structural strengthening.

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### Note:

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