Donplast PC856

High range water reducing admixture based on polycarboxylate polymers

DESCRIPTION

Donplast PC856 is a high range water reducing admixture 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 different concrete applications where it is required to keep the water-to-cement ratio at a minimum level while maintaining an excellent workability and strength performance.

APPLICATIONS

Donplast PC856 is suitable for use in the following applications:

- Acts as high range water reducer for the production of high strength and high performance concrete.
- Can be also used as normal range water reducer for low and mid-rise constructions.
- Structures with congested reinforcement.
- Self-compacting concrete.
- Use in concrete where extended slump retention is required.

ADVANTAGES

- Optimizes cement utilization.
- Can be used as high range and normal range water reducer depending on the used dosage.
- Improves the slump retention characteristic without affecting the setting time.
- Improves stability and minimizes segregation and bleeding problems, making making it less susceptible to variations in the concrete mix materials, specially for SCC applications.

COMPATIBILITY

Donplast PC856 is suitable to use with all types of Portland cement and cement replacement materials. Donplast PC856 should not be used in conjunction with other admixtures unless DCP's Technical Department approval is obtained.

TECHNICAL PROPERTIES @ 25°C:	
Colour:	Light brownish liquid
Specific gravity:	1.08 ± 0.02
pH:	5 - 7
Chloride content:	Chloride-free

STANDARDS

Donplast PC856 complies with the requirements of Specification for Chemical Admixture for Concrete ASTM C494 as a Type F and G admixture.

METHOD OF USE

Donplast PC856 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 PC856 to the concrete mix.

DOSAGE

The recommended dosage of Donplast PC856 is 0.4 to 1.5 litres per 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 PC856 to meet the performance requirements by using the materials and conditions in actual use.

EFFECTS OF OVERDOSAGE

Overdosage of Donplast PC856 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.

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Donplast PC856

CLEANING

Clean Donplast PC856 with fresh cold water.

PACKAGING

Donplast PC856 is available in 25 kg pails, 210 kg drums and 1000 kg bulks supply.

STORAGE

Donplast PC856 has a minimum shelf life of 18 months from date of manufacture if stored at temperatures between 2°C and 50°C.

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

CAUTIONS

HEALTH AND SAFETY

Donplast PC856 is not classified as a hazardous material.
Donplast PC856 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 PC856 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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