Hyperplast PC285

High performance polycarboxilic based, water reducing and retarding concrete admixture

DESCRIPTION

Hyperplast PC285 is a high performance super plasticising admixture based on polycarboxylic polymers with long chains specially designed to enable the water content of the concrete to perform more effectively.

This effect can be used in high strength, low W/C ratio and flowable concrete mixes, to achieve highest concrete durability and performance in the readymix concrete industry.

Hyperplast PC285 also has retarding properties; this effect can be used in concrete where high cement content or high temperatures are involved, or where extended setting time is required.

APPLICATIONS

- High strength and high performance concrete.
- Improved cohesion allow for use in mass concrete pours and piling.
- High durability concrete.
- Structures with congested reinforcement.
- For high levels concrete pumping.
- Self compacting concrete.

ADVANTAGES

- Optimises cement utilization.
- Improves shrinkage and creep behaviors.
- High density and impermeable concrete through very high water reduction.
- Increases durability and resistance to aggressive atmospheric conditions thorough reduced permeability.
- Minimizes segregation and bleeding problems by improving cohesion.
- Higher early and ultimate compressive strengths.

COMPATIBILITY

Hyperplast PC285 is suitable to use with all types of Portland cement and cement replacement materials. Hyperplast PC285 should not be used in conjunction with other admixtures unless DCP Technical Department approval is obtained.

STANDARDS

Hyperplast PC285 complies with ASTM C494 as Type G admixture.

TECHNICAL PROPERTIES @ 25ºC:	
Colour:	Brownish liquid
Freezing point:	-1°C
Specific gravity:	1.05 ± 0.02
pH:	5 - 7
Chloride content:	Nil
Air entrainment:	Typically less than 2% at normal dosages

METHOD OF USE

Hyperplast PC285 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 Hyperplast PC285 to the concrete mix.

DOSAGE

The recommended dosage of Hyperplast PC285 is 0.5 - 2.5 litre per 100 kg of cementitious materials in the mix, including GGBFS, PFA or microsilica.

Representative trials should be conducted to determine the optimum dosage of Hyperplast PC285 to meet the performance requirements by using the materials and conditions in actual use.

EFFECTS OF OVER DOSAGE

Overdosage of Hyperplast PC285 will cause the following:

- Significant increase in retardation.
- 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 Hyperplast PC285 with fresh cold water.

PACKAGING

Hyperplast PC285 is available in 25 litre pails, 210 litre drums and 1000 litre bulks supply.

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STORAGE

Hyperplast PC285 has a shelf life of 12 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

Hyperplast PC285 is not classified as a hazardous material. Hyperplast PC285 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

Hyperplast PC285 is nonflammable.

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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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