

Hyperplast PC800

High performance concrete superplasticiser



DESCRIPTION

Hyperplast PC800 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 concrete and flowable concrete mixes, to achieve highest concrete durability and performance.

APPLICATIONS

- » Self compacting concrete.
- » Structures with congested reinforcement.
- » High strength and high performance concrete.
- » Pre-cast concrete.
- » Improved cohesion allow for use in mass concrete pours and piling.

ADVANTAGES

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

COMPATIBILITY

Hyperplast PC800 can be used with all types of Portland cement and cement replacement materials. Hyperplast PC800 should not be used in conjunction with other admixtures unless DCP technical department approval is obtained.

STANDARDS

Hyperplast PC800 complies with ASTM C494 Type A and G, depending on dosage used.

METHOD OF USE

Hyperplast PC800 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 PC800 to the concrete mix.

TECHNICAL PROPERTIES @ 25°C:

Colour:	Light yellow liquid
Freezing point:	≈ -1°C
Specific gravity:	1.06 ± 0.02
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages

DOSAGE

The guidance dosage of Hyperplast PC800 is 1.0 to 2.9 litre per 100kg of cementitious materials in the mix, including GGBFS, PFA or microsilica.

Representative trials should be conducted to determine the optimum dosage of Hyperplast PC800 to meet the performance requirements by using the materials and conditions in actual use.

EFFECTS OF OVER DOSAGE

Overdosage of Hyperplast PC800 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 PC800 with fresh cold water.

PACKAGING

Hyperplast PC800 is available in 25 litre jerrycan, 210 litre drums and 1000 litre bulks supply



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STORAGE

Hyperplast PC800 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 PC800 is not classified as hazardous material. Hyperplast PC800 should not come into contact with skin and eyes.

In case of contact with eyes wash immediately with plenty of water and seek medical advice promptly.

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

FIRE

Hyperplast PC800 is nonflammable.

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