# Hyperplast PC600

High performance polycarboxilic based, concrete superplasticiser (Formerly known as Flo-crete PC600)

## Description

Hyperplast PC600 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 and precast concrete industries.

## Applications

- High strength and high performance concrete.
- Pre-cast 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 PC600 can be used with all types of Portland cement and cement replacement materials. Hyperplast PC600 should not be used in conjunction with other admixtures unless DCP Technical Department approval is obtained.

## Standards

Hyperplast PC600 complies with BS EN934-2:1998 and ASTM C494, Type G.

| Technical Properties @ 25°C: | |
|---|---|
| Color: | Yellowish to brownish liquid |
| Freezing point: | -1°C |
| Specific gravity: | 1.07 ± 0.03 |
| Chloride content: BS5075 | Nil |
| Air entrainment: | Typically less than 2% at normal dosages |

## Method of Use

Hyperplast PC600 should be added to the concrete with the mixing water to achieve optimum performance.

Automatic dispenser should be used to dispense the correct quantity of Hyperplast PC600 to the concrete mix.

## Dosage

The guidance dosage of Hyperplast PC600 is 0.5 - 2.5 liters 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 PC600 to meet the performance requirements by using the materials and conditions in actual use.

## Effects of Over Dosage

Over dosing of Hyperplast PC600 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

Hyperplast PC600 can be washed with fresh cold water.

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## Packaging

Hyperplast PC600 is available in 25 litre pails, 210 litre drums and 1000 litre bulks supply.

## Storage

Hyperplast PC600 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, DCP Technical Department should be contacted for advice.

## Cautions

### Health and Safety

Hyperplast PC600 is not classified as hazardous material.
Hyperplast PC600 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 PC600 is nonflammable.

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- 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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