

# Hyperplast PC195

High performance polycarboxylic based superplasticiser with excellent workability retention performance



## Description

Hyperplast PC195 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 the highest concrete durability and performance, as well as maintaining the workability retention of fresh concrete mixes.

## Applications

- ▲ Production of extended workability concrete.
- ▲ High strength and high performance concrete.
- ▲ Structures with congested reinforcement.
- ▲ Improved cohesion allow for use in mass concrete pours and piling.
- ▲ Suitable for long concrete deliveries.

## Advantages

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

## Standards

Hyperplast PC195 complies with ASTM C494, Type A and G, depending on dosage used.

## Compatibility

Hyperplast PC195 suitable to use with all types of Portland cement and cement replacement materials. Hyperplast PC195 should not be used in conjunction with other admixtures unless DCP technical department approval is obtained.

## Technical Properties @ 25°C

Color:	Yellowish liquid
Specific gravity:	1.06 ± 0.02
pH:	5 - 7
Chloride content: EN 934-2	Chloride-free

## Method of Use

Hyperplast PC195 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 PC195 to the concrete mix.

## Dosage

The recommended dosage of Hyperplast PC195 is between 0.3 - 1.5 litre per 100 kg of cement or cementitious materials in the mix including GGBFS, PFA or micro-silica.

Dosages outside the typical range given above up to 2.5 litre per 100 kg of cement content may be used to meet further retardation in setting time, more workability retention or other particular requirements.

Representative trials should be conducted to determine the optimum dosage of Hyperplast PC195 to meet the performance requirements by using the materials and conditions in actual use.

## Effects of over dosage

Overdosage of Hyperplast PC195 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.

# Hyperplast PC195

## Cleaning

Clean Hyperplast PC195 with fresh cold water.

## Packaging

Hyperplast PC195 is available in 25 liters jerrycan, 210 liters drums and 1000 liters bulks supply.

## Storage

Hyperplast PC195 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 PC195 is not classified as a hazardous material. Hyperplast PC195 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 PC195 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.

#### Note:

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