

# Hyperplast PC151

Mid-range water reducing and retarding concrete admixture based on polycarboxylic polymers



## Description

Hyperplast PC151 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.

## Applications

- ▲ To produce high-quality concrete of improved durability and water tightness.
- ▲ High strength and high performance concrete.
- ▲ Improved cohesion allows 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 behaviours.
- ▲ Minimises segregation and bleeding problems by improving cohesion.
- ▲ Higher early and ultimate compressive strengths.
- ▲ Increases durability and resistance to aggressive atmospheric conditions through reduced permeability.

## Compatibility

Hyperplast PC151 is suitable to use with all types of Portland cement and cement replacement materials. Hyperplast PC151 should not be used in conjunction with other admixtures unless DCP Technical Department approval is obtained.

## Standards

Hyperplast PC151 complies with ASTM C494, Type B and D, depending on dosage used.

### Technical Properties @ 25°C:

Colour:	Yellowish to brownish liquid
Freezing point:	≈ -3°C
Specific gravity:	1.06 ± 0.02
Chloride content:	Nil

## Method of Use

Hyperplast PC151 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 PC151 to the concrete mix.

## Dosage

The recommended dosage of Hyperplast PC151 is 0.4 - 2.6 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 PC151 to meet the performance requirements by using the materials and conditions in actual use.

## Effects of Over Dosage

Overdosage of Hyperplast PC151 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 PC151 with fresh cold water.

## Packaging

Hyperplast PC151 is available in 25 litre jerrycan, 210 litre drums and 1000 litre bulks supply.

**DCP Saudi Co.**  
*Riyadh Offices:*  
Exit 9, Al Izdehar, Beside ACDelco Petrol Station  
  
*Jeddah Offices:*  
Al-Henaki Business Center, Tower C

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## Storage

Hyperplast PC151 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 PC151 is not classified as a hazardous material. Hyperplast PC151 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 PC151 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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#### Note:

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