

# Hyperplast PC675

High range water reducing admixture with workability retention properties



## Description

Hyperplast PC675 is a high performance superplasticising admixture based on polycarboxylic ether 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

- ▲ High strength and high performance concrete.
- ▲ Structures with congested reinforcement.
- ▲ Improved cohesion allow for use in mass concrete pours and piling.

## Advantages

- ▲ Optimises cement utilisation.
- ▲ High density and impermeable concrete through very high water reduction.
- ▲ Improves shrinkage and creep behaviours.
- ▲ 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 PC675 complies with ASTM C494, Type F and G depending on the used dosage.

## Compatibility

Hyperplast PC675 can be used with all types of Portland cement and cement replacement materials. Hyperplast PC675 should not be used in conjunction with other admixtures unless DCP technical department approval is obtained.

## Method of Use

Hyperplast PC675 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 PC675 to the concrete mix.

## Technical Properties @ 25°C

Colour:	Dark brown liquid
Specific gravity:	1.07 ± 0.02
Chloride content: EN 934, Part 2	Nil
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages

## Dosage

The guidance dosage of Hyperplast PC675 is 0.45 - 2.40 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 PC675 to meet the performance requirements by using the materials and conditions in actual use.

## Effects of over dosage

Over dosing of Hyperplast PC675 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 PC675 can be washed with fresh cold water.

## Packaging

Hyperplast PC675 is available in 25 litre jerrycan, 210 litre drums and 1000 litre bulks supply.

## Storage

Hyperplast PC675 has a shelf life of 12 months from date of manufacture if stored at temperatures between 2°C and 50°C.

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Riyadh Offices:

Exit 9, Al Izdehar, Beside ACDelco Petrol Station

Jeddah Offices:

Al-Henaki Business Center, Tower C

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If these conditions are exceeded, DCP Technical Department should be contacted for advice.

## Cautions

### Health and Safety

Hyperplast PC675 is not classified as hazardous material. Hyperplast PC675 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 PC675 is nonflammable.

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- ▲ 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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