

# Hyperplast PC218

High range water reducing admixture based on polycarboxylate polymers



## Description

Hyperplast PC218 is a high range water reducing admixture based on polycarboxylic polymers with selective additives which are especially formulated to enable the water content of the concrete to perform in a more effective manner.

This effect can be used in different concrete applications where it is required to keep the water-to-cement ratio at a minimum level while maintaining an excellent workability and strength performance.

## Applications

Hyperplast PC218 is suitable for use in the following applications:

- ▲ Acts as a high range water reducer for the production of high strength and high performance concrete.
- ▲ Suitable for normal weight and light weight concrete in ready-mix, precast and pre-stressed applications.
- ▲ Production of self-levelling concrete.
- ▲ Improves the cohesion of concrete for use in mass concrete pours and piling.
- ▲ Structures with congested reinforcement.

## Advantages

- ▲ Optimizes cement utilization.
- ▲ Improves the water impermeability characteristics of concrete mix.
- ▲ Significantly improves the slump retention characteristic.
- ▲ Increases the durability and resistance to aggressive atmospheric conditions.
- ▲ Significantly improves early and ultimate compressive strengths.
- ▲ Minimizes segregation and bleeding problems by improving the cohesion of concrete mixes.

## Compatibility

Hyperplast PC218 is suitable to use with all types of Portland cement and cement replacement materials. Hyperplast PC218 should not be used in conjunction with other admixtures unless DCP's Technical Department approval is obtained.

## Technical Properties @ 70°F (21°C):

Colour:	Yellowish to brownish liquid
Specific gravity:	1.05 ± 0.02
pH:	5 - 7
Chloride content:	Chloride-free

## Standards

Hyperplast PC218 complies with the requirements of the Specification for Chemical Admixture for Concrete ASTM C494 as a Type G admixture.

## Method of Use

Hyperplast PC218 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 PC218 to the concrete mix.

## Dosage

The recommended dosage of Hyperplast PC218 is 7 to 20 fl oz/100 lb (455 -1300 ml/100 kg) of cement or cementitious materials in the mix including GGBFS, PFA or micro-silica.

Representative trials should first be conducted to determine the optimum dosage of Hyperplast PC218 to meet the performance requirements by using the materials and conditions in actual use.

## Effects of Over Dosage

Overdosage of Hyperplast PC218 can 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 PC218

## Cleaning

Clean Hyperplast PC218 with fresh cold water.

## Packaging

Hyperplast PC218 is available in 275 gal (1,041 litre) and 330 gal (1,249 litre) IBC totes. Bulk supply in tanker trucks is also available upon request.

## Storage

Hyperplast PC218 has a shelf life of 12 months from date of manufacture if stored at temperatures between 35°F and 122°F (2°C and 50°C).

If these conditions are exceeded, contact DCP Technical Department for advice.

## Cautions

### Health and Safety

Hyperplast PC218 is not classified as a hazardous material. Hyperplast PC218 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 PC218 is nonflammable.

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- ▲ Tile adhesives and grouts.
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- ▲ Structural strengthening.


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#### Note:

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