

# Hyperplast ES910M

High performance early strength concrete hyperplasticiser



## Description

Hyperplast ES910M is a high performance early strength concrete hyperplasticising 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 highest concrete durability and performance.

## Applications

- ▲ Improved cohesion allowing for use in mass concrete pours and piling.
- ▲ Structures with congested reinforcement.
- ▲ High strength and high performance concrete.
- ▲ Pre-cast concrete.
- ▲ Concrete block.
- ▲ Self compacting concrete.
- ▲ Coloured masonry products.

## Advantages

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

## Compatibility

Hyperplast ES910M can be used with all types of Portland cement and cement replacement materials. Hyperplast ES910M should not be used in conjunction with other admixtures unless DCP technical department approval is obtained.

## Standards

Hyperplast ES910M complies with ASTM C494 Type, F & E, depending on dosage used.

### Technical Properties @ 25°C:

Colour:	Light yellow liquid
Freezing point:	≈ -5°C
Specific gravity:	1.08 ± 0.02
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages

## Method of Use

Hyperplast ES910M 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 ES910M to the concrete mix.

## Dosage

The guidance dosage of Hyperplast ES910M is 0.2 to 2.0 litre per 100 kg of cementitious materials in the mix, including GGBFS, PFA or microsilica.

Trials should be conducted to determine the optimum dosage of Hyperplast ES910M to meet the performance requirements by using the materials and conditions in actual use.

## Effects of Over Dosage

Over dosing of Hyperplast ES910M will cause the following:

- ▲ Significant increase in retardation.

Ultimate concrete strength will not be adversely affected and will generally be increased provided that proper concrete curing is maintained.

## Cleaning

Hyperplast ES910M can be washed with fresh cold water.

## Packaging

Hyperplast ES910M is available in 25 litre pails, 210 litre drums and 1000 litre bulks supply.

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## Storage

Hyperplast ES910M 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 ES910M is not classified as hazardous material. Hyperplast ES910M 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 ES910M is nonflammable.

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- ▲ Concrete repair.
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