

Hyperplast ES500W

Premium quality plasticising admixture for concrete masonry products



Description

Hyperplast ES500W is a chloride free, premium quality high range water reducing admixture based on polycarboxylic polymers with selective additives which are especially formulated for factory-line concrete production such as concrete blocks and bricks.

Hyperplast ES500W can significantly assist in the production of a more uniform and consistent quality mixes in factory-line concrete products, it can be also used for light weight concrete production.

Applications

Hyperplast ES500W can be successfully used in the following applications:

- ▲ Concrete blocks and bricks.
- ▲ Dry cast concrete.
- ▲ Concrete roofing tiles.
- ▲ Concrete pipes.

Advantages

- ▲ Improves the cohesion of the concrete mix.
- ▲ Extends the moulds life.
- ▲ Improves compressive strength.
- ▲ Reduces water absorption.

Compatibility

Hyperplast ES500W can be used with all types of Portland cement and cement replacement materials. Hyperplast ES500W should not be used in conjunction with other admixtures unless DCP technical department approval is obtained.

Standards

Hyperplast ES500W complies with ASTM C494 Type, F and E depending on dosage used.

Method of Use

Hyperplast ES500W 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 ES500W to the concrete mix.

Technical Properties @ 25°C:

Colour:	Light yellow liquid
Freezing point:	≈ -5°C
Specific gravity:	1.04 ± 0.02
Chloride content:	Nil

Dosage

The guidance dosage of Hyperplast ES500W is 0.4 - 4.0 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 ES500W to meet the performance requirements by using the materials and conditions in actual use.

Effects of Over Dosage

Over dosing of Hyperplast ES500W 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 ES500W can be washed with fresh cold water.

Packaging

Hyperplast ES500W is available in 25 litre jerrycan, 210 litre drums and 1000 litre bulks supply.

Storage

Hyperplast ES500W 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.

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Cautions

Health and Safety

Hyperplast ES500W is not classified as hazardous material. Hyperplast ES500W 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 ES500W is nonflammable.

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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.

Note:

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