

Hyperplast LPC300A

High performance concrete superplasticiser



Description

Hyperplast LPC300A 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

- ▲ High strength and high-performance concrete.
- ▲ Structures with congested reinforcement.
- ▲ Pre-cast concrete.
- ▲ Improved cohesion allows for use in mass concrete pours and piling.
- ▲ Self-compacting concrete.

Advantages

- ▲ Optimises cement utilisation.
- ▲ 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 thorough reduced permeability.

Compatibility

Hyperplast LPC300A can be used with all types of Portland cement and cement replacement materials. Hyperplast LPC300A should not be used in conjunction with other admixtures unless DCP Technical Department approval is obtained.

Standards

Hyperplast LPC300A complies with ASTM C494, Type A and G, depending on dosage used.

Method of Use

Hyperplast LPC300A should be added to the concrete with the mixing water to achieve optimum performance.

Technical Properties @ 25°C:

Colour:	Light yellow liquid
Freezing point:	≈ -1°C
Specific gravity:	1.06 ± 0.02
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages

An automatic dispenser should be used to dispense the correct quantity of Hyperplast LPC300A to the concrete mix.

Dosage

The guidance dosage of Hyperplast LPC300A is 1.0 - 2.9 litre per 100 kg of cementitious materials in the mix, including GGBFS, PFA or micro silica.

Representative trials should be conducted to determine the optimum dosage of Hyperplast LPC300A to meet the performance requirements by using the materials and conditions in actual use.

Effects of Over Dosage

Overdosing of Hyperplast LPC300A will cause the following:

- ▲ A 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 LPC300A can be washed with fresh cold water.

Packaging

Hyperplast LPC300A is available in 25 litre jerrycan, 210 litre drums and 1000 litre bulks supply.

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Storage

Hyperplast LPC300A has a shelf life of 12 months from the 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 LPC300A is not classified as hazardous material. Hyperplast LPC300A 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 LPC300A 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.

Note:

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