

Hyperplast PC388

Mid-range water reducing and retarding concrete admixture based on polycarboxylic polymers



Description

Hyperplast PC388 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

- ▲ To produce high-quality concrete of improved durability and water tightness.
- ▲ High strength and high performance concrete.
- ▲ Improved cohesion allows for use in mass concrete pours and piling.

Advantages

- ▲ Optimises cement utilization.
- ▲ 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 PC388 suitable to use with all types of Portland cement and cement replacement materials. Hyperplast PC388 should not be used in conjunction with other admixtures unless DCP Technical Department approval is obtained.

Standards

Hyperplast PC388 complies with BS 934-2, BS 5075-1 and 3 and ASTM C494, Type G.

Technical Properties @ 25°C:

| | |
|-------------------|------------------------------|
| Colour: | Yellowish to brownish liquid |
| Freezing point: | ≈ -3°C |
| Specific gravity: | 1.06 ± 0.02 |
| Chloride content: | Nil |

Method of Use

Hyperplast PC388 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 PC388 to the concrete mix.

Dosage

The recommended dosage of Hyperplast PC388 is 0.5 - 2.5 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 PC388 to meet the performance requirements by using the materials and conditions in actual use.

Effects of Over Dosage

Overdosage of Hyperplast PC388 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

Clean Hyperplast PC388 with fresh cold water.

Packaging

Hyperplast PC388 is available in 25 litre jerrycan, 210 litre drums and 1000 litre bulks supply.

DCP Saudi Co.

Riyadh Offices:

Exit 9, Al Izdehar, Beside ACDelco Petrol Station

Jeddah Offices:

Al-Henaki Business Center, Tower C

Hyperplast PC388

Storage

Hyperplast PC388 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, contact DCP Technical Department for advice.

Cautions

Health and Safety

Hyperplast PC388 is not classified as a hazardous material. Hyperplast PC388 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 PC388 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.
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Note:

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