

Hyperplast PC670

High performance concrete admixture based on Polycarboxylic ether polymer for concrete with low water cement ratio



Description

Hyperplast PC670 is a high performance super plasticising admixture based on polycarboxylic ether 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

- ▲ Self compacting concrete.
- ▲ Structures with congested reinforcement.
- ▲ High strength and high performance concrete.
- ▲ Pre-cast concrete.
- ▲ Improved cohesion allow 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 behaviors.
- ▲ Minimizes 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 PC670 can be used with all types of Portland cement and cement replacement materials. Hyperplast PC670 should not be used in conjunction with other admixtures unless DCP technical department approval is obtained.

Standards

Hyperplast PC670 complies with ASTM C494, Type G.

Technical Properties @ 25°C:

Colour:	Yellowish to brownish liquid
Freezing point:	≈ -5°C
Specific gravity:	1.10 ± 0.02
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages
Chloride content:	Nil

Method of Use

Hyperplast PC670 should be added to the concrete with the mixing water to achieve optimum performance.

Automatic dispenser should be used to dispense the correct quantity of Hyperplast PC670 to the concrete mix.

Dosage

The guidance dosage of Hyperplast PC670 is 0.3 to 1.7 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 PC670 to meet the performance requirements by using the materials and conditions in actual use.

Effects of Over Dosage

Over dosing of Hyperplast PC670 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

Hyperplast PC670 can be washed with fresh cold water.

Hyperplast PC670

Packaging

Hyperplast PC670 is available in 25 litre pails, 210 litre drums and 1000 litre bulks supply.

Storage

Hyperplast PC670 shelf life is 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 PC670 is not classified as hazardous material. Hyperplast PC670 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 PC670 is nonflammable.

More from Don Construction Products

A wide range of construction chemicals 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.

Don Construction Products Qatar W.L.L

New Industrial Area, Street 21,
Zone 81, bldg. # 9
Doha - Qatar

Note:

We endeavor to ensure that any advice, recommendation or information we may give in product literature is accurate and correct. However, due to the fact that we have no direct or continuous control over where or how the products are applied, DCP cannot accept any liability either directly or indirectly arising from the use of DCP products, whether or not in accordance with any advice, specification, recommendation or information given by us.

 expertise

 quality

 full range

www.dcp-int.com