

Hyperplast® PC130

High range water reducing admixture for high-performance concrete



DESCRIPTION

Hyperplast PC130 is a liquid concrete admixture formulated from selected polymers specially designed to enable the water content of the concrete to perform more effectively.

This effect can be used to improve workability, to increase ultimate strengths or to facilitate a reduction in the cement content while sustaining mix properties.

APPLICATIONS

- » For long concrete deliveries.
- » To increase workability retention of fresh concrete.
- » To improve cohesion, minimizing segregation and improving surface finish.
- » To produce high quality concrete of improved durability and water tightness.

ADVANTAGES

- » Improves the cohesion of the mix resulting in easier pumpable concrete.
- » Minimising segregation problems by improving cohesion.
- » Improved workability reduces placing and compaction problems.
- » Cement reductions can be achieved resulting in durable concrete at a reduced cost.
- » More durable concrete and high resistance to aggressive environmental conditions.

COMPATIBILITY

Hyperplast PC130 is suitable to use with all types of Portland cement and cement replacement materials. Hyperplast PC130 is compatible with other DCP admixtures used in the same concrete mix.

If more than one type of admixture will be used in the concrete mix, they must be dispensed to the concrete separately.

STANDARDS

Hyperplast PC130 complies with the ASTM C 494, Type G, and EN 934-2:2009 + A1: 2012.

TECHNICAL PROPERTIES @ 25°C:

Colour:	Yellowish to brownish liquid
Freezing point:	≈ -2°C
Specific gravity:	1.045 ± 0.02
Chloride content:	Nil
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages

METHOD OF USE

Hyperplast PC130 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 PC130 to the concrete mix.

DOSAGE

The recommended dosage of Hyperplast PC130 is 0.3 - 1.5 kg 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 PC130 to meet the performance requirements by using the materials and conditions that will be experienced in use.

EFFECTS OF OVER DOSAGE

Hyperplast PC130 overdosage 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.

Don Construction Products

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SETTING TIME

Although the setting time is dependent on the dosage of Hyperplast PC130, the following factors should be considered:

- i. Retardation is increased with a lower level of tri-calcium in the cement.
- ii. Lower temperatures will delay the setting time.
- iii. Sulfate resisting cement gives higher retardation level than ordinary cement.
- iv. Using more than one type of admixture in the same concrete mix could affect the setting time.
- v. Retardation level is increased when cement replacement materials are used in the concrete mix.

CLEANING

Clean Hyperplast PC130 immediately by cold water.

PACKAGING

Hyperplast PC130 is available in 1000 litre bulks supply.

STORAGE

Hyperplast PC130 has a shelf life of 12 months from date of manufacture if stored at a temperature within 2°C to 30°C.

If these conditions are exceeded, contact DCP Technical Department for advice.

CAUTIONS

HEALTH AND SAFETY

Hyperplast PC130 is not classified as a hazardous material. Hyperplast PC130 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 PC130 is nonflammable.

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- » Concrete admixtures.
- » Surface treatments
- » Grouts and anchors.
- » Concrete repair.
- » Flooring systems.
- » Protective coatings.
- » Sealants.
- » Waterproofing.
- » Adhesives.
- » Tile adhesives and grouts.
- » Building products.
- » Structural strengthening.

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Note:

We endeavour to ensure that any information, advice or recommendation we may give in product literature is accurate and correct. However, because we have no control over where and how products are applied, we cannot accept any liability arising from the use of the products.

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