

Hyperplast Block C

Freeze/thaw resistance and durability enhancing admixture (Formerly known as Blockadd C)



Description

Hyperplast Block C is a mortar admixture that improves the workability, strength, cohesion and improves resistance to freeze/thaw cycles, by entraining a controlled quantity of air to the mortar mix.

Applications

Hyperplast Block C is used to improve workability, strength, surface finish and freeze/thaw cycle resistance properties. It is specially designed for zero slump concrete applications such as concrete pavers, segmental retaining wall units, concrete blocks, pipes, roofing tiles and concrete bricks which are exposed to environments of repeated freezing and thawing.

Advantages

- ▲ Improves the durability of concrete products against frost and severe weathering conditions.
- ▲ Significantly improves the cohesion of concrete mixes.
- ▲ Improves workability.
- ▲ Chloride-free.

Compatibility

Hyperplast Block C is suitable to use with all types of cement and cement replacement materials. Hyperplast Block C is compatible with most of DCP's admixtures used in the same concrete mix as long as they are added separately to the concrete mix.

For more details, please contact DCP's Technical Department.

Method of Use

Hyperplast Block C 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 Block C to the concrete mix.

Technical Properties @ 77°F (25°C):

Colour:	Dark brown liquid
Specific gravity:	1.03 ± 0.02
pH:	10 - 11
Chloride content:	Chloride-free

Dosage

The recommended dosage of Hyperplast Block C is 0.25 - 11.5 fl oz/100 lb (16 - 750 ml/100 kg) of cement or cementitious materials in the mix including GGBFS, PFA or micro-silica. The rate will vary depending on the level of freeze/thaw durability required.

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

Points to be considered affecting freeze/thaw durability

The freeze/thaw durability of manufactured concrete products is a function of:

- Cement fineness.
- Concrete temperature.
- Aggregate quality.
- Aggregate grading and proportions.
- Mixture types.
- Compaction method.
- Carbon or organic impurities
- Use of hydrophobic admixtures

Effects of Over Dosage

Overdosage of Hyperplast Block C will cause the following:

- ▲ May cause a slight reduction in the compressive strength.
- ▲ Slight increase in setting time.

Cleaning

Clean Hyperplast Block C with fresh cold water.

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Packaging

Hyperplast Block C is available in 275 gal (1,041 litre) and 330 gal (1,249 litre) IBC totes. Bulk supply in tanker trucks is also available upon request.

Storage

Hyperplast Block C has a shelf life of 12 months from date of manufacture if stored at temperatures between 35 °F and 122°F (2°C and 50°C).

If these conditions are exceeded, DCP Technical Department should be contacted for advise.

Cautions

Health and Safety

Hyperplast Block C is not classified as a hazardous material. Hyperplast Block C 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 Block C is nonflammable.

More from Don Construction Products

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.

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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.

