

Donplast ESX

Concentrated plasticizing admixture for manufactured concrete products (formerly known as Hyperplast ESX)



Description

Donplast ESX is a chloride free, premium quality concentrated plasticizing admixture based on polycarboxylic polymers with selective additives which are specially formulated for use in the production of concrete block, concrete, pipe and other low slump concrete products where a smooth, tight surface is preferred.

Donplast ESX can significantly assist in the production of more uniform and consistent quality concrete products.

Applications

Donplast ESX is suitable for use in all zero or low slump concrete such as:

- ▲ Dry cast concrete.
- ▲ Concrete pavers, patio products.
- ▲ Concrete blocks and bricks.
- ▲ Concrete roofing tiles.
- ▲ Dry-Cast concrete pipes.

Advantages

- ▲ Increase workability while retaining cohesiveness.
- ▲ Provides a more complete hydration of the cement.
- ▲ Improves production cycle times.
- ▲ Extends the moulds life.
- ▲ Improves compressive strength.
- ▲ Reduces water absorption.
- ▲ Provides a smoother & denser surface.
- ▲ Better compaction with less cracking and sharper corners and edges.

Compatibility

Donplast ESX is suitable to use with all types of Portland cement and cement replacement materials. Donplast ESX should not be used in conjunction with other admixtures unless DCP's Technical Department approval is obtained.

Technical Properties @ 70°F (21°C):

Colour:	Light yellow liquid
Freezing point:	≈ 32°F (0°C)
Specific gravity:	1.11 ± 0.02
pH:	5 - 7
Chloride content:	Chloride-free

Method of Use

Donplast ESX is supplied as a liquid concentrate but it is recommended to be used in a diluted form. The recommended dilution rate is one part Donplast ESX admixture to ten parts water.

As a guide, add 30 gal (114 ltr) of water to a 55 gal (208 ltr) drum, then add 5 gal (19 ltr) of Donplast ESX to the water. While mixing, add the remaining 20 gal (76 ltr) of water to the drum and mix until a homogeneous mixture is obtained.

Dosage

The recommended dosage of the prepared solution is of 2 - 32 fl oz/ 100 lb (130 - 2086 mL/100 kg) of cement or cementitious materials in the mix including GGBFS, PFA or micro-silica.

Dosage is highly dependent on the agreed mix design and dilution rates. Representative trials should be first conducted to determine the optimum dosage of Donplast ESX to meet the performance requirements by using the materials and conditions in actual use.

Effects of Over Dosage

Overdosage of Donplast ESX will cause the following:

- ▲ Increase in workability.

Donplast ESX

Cleaning

Clean Donplast ES5X with fresh cold water.

Packaging

Donplast ESX is available in 5 gal (19 litre) containers as well as 275 gal (1,041 litre) IBC totes. Bulk supply in tanker trucks is also available upon request.

Storage

Donplast ESX 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

Donplast ESX is not classified as a hazardous material. Donplast ESX 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

Donplast ESX 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.

