

Donplast ES117

Advanced high early age strength hyperplasticiser developed specifically for the precast concrete industry (Formerly known as Hyperplast ES117)



Description

Donplast ES117 is high early age strength superplasticiser employs the latest developments in polycarboxylate technology to meet the demands of the precast concrete industry.

Donplast ES117 is free of chloride and low alkali. It is compatible with all types of cements.

Applications

- ▲ Precast / pre-stressed concrete.
- ▲ Increase productivity/ reduction in cycle time.
- ▲ Achieve high early strengths.
- ▲ Production of high strength and high-performance concrete.
- ▲ Production of high-quality concrete with improved durability and watertightness.

Advantages

- ▲ Optimizes cement utilization.
- ▲ Higher early and ultimate strengths
- ▲ Improves the water impermeability characteristics of concrete mix.
- ▲ Increases the durability and resistance to aggressive atmospheric conditions.
- ▲ Improved finishability
- ▲ Minimizes segregation and bleeding problems by improving the cohesion of concrete mixes.

Compatibility

Donplast ES117 is suitable to use with all types of Portland cement and cement replacement materials. Donplast ES117 should not be used in conjunction with other admixtures unless DCP's Technical Department approval is obtained.

Standards

Donplast ES117 complies with the requirements of Specification for Chemical Admixture for Concrete ASTM C494 as a Type E admixture.

Technical Properties @ 77°F (25°C):

Appearance:	Light brown liquid
Specific gravity:	1.30 ± 0.03
pH:	5 - 7
Chloride content:	Chloride-free

Method of Use

Donplast ES117 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 Donplast ES117 to the concrete mix.

Dosage

The recommended dosage of Donplast ES117 is 10 to 20 fl oz/100 lb (625 - 1,304 ml/100 kg) of cement or cementitious materials in the mix including GGBFS, PFA or micro-silica.

Representative trials should first be conducted to determine the optimum dosage of Donplast ES117 to meet the performance requirements by using the materials and conditions in actual use.

Effects of Over Dosage

The overdosage of Donplast ES117 will cause the following:

- ▲ 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 Donplast ES117 with fresh cold water.

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Packaging

Donplast ES117 is available in 5 gal (19 litre) containers as well as 275 gal (1,041 litre) and 330 gal (1,249 litre) IBC totes. Bulk supply in tanker trucks is also available upon request.

Storage

Donplast ES117 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, contact DCP Technical Department for advice

Cautions

Health and Safety

Donplast ES117 is not classified as a hazardous material. Donplast ES117 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 ES117 is nonflammable.

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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.

