

Donplast SP90

High range water-reducing superplasticizer admixture (Formerly known as Flocrete SP90)



Description

Donplast SP90 is a high range water-reducing 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 strength or to facilitate a reduction in the cement content while sustaining mix properties.

Applications

- ▲ Production of high strength and high-performance concrete.
- ▲ Helps in accelerating early strength development.
- ▲ Production of high-quality concrete with improved durability and water tightness.
- ▲ Suitable for precast concrete applications.

Advantages

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

Compatibility

Donplast SP90 is suitable to use with all types of Portland cement and cement replacement materials. Donplast SP90 should not be used in conjunction with other admixtures unless DCP's Technical Department approval is obtained.

Standards

Donplast SP90 complies with the requirements of Specification for Chemical Admixture for Concrete ASTM C494 as a Type A and F admixture, depending on the used dosage.

Technical Properties @ 77°F (25°C):

Appearance:	Brown liquid
Specific gravity:	1.11 ± 0.03
pH:	5 - 7
Freezing point:	28°F (-2°C)
Chloride content:	Chloride-free

Method of Use

Donplast SP90 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 SP90 to the concrete mix.

Dosage

The recommended dosage of Donplast SP90 is 11 to 30 fl oz/100 lb (715 -1,950 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 SP90 to meet the performance requirements by using the materials and conditions in actual use.

Effects of Over Dosage

The overdosage of Donplast SP90 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 SP90 with fresh cold water.

Packaging

Donplast SP90 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.

Donplast SP90

Storage

Donplast SP90 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 SP90 is not classified as a hazardous material. Donplast SP90 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 SP90 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.

Don Construction Products Inc.
2826 Lineberger Industrial Dr.
Lancaster, SC 2970
USA

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.

