

Donplast P17

Water reducing and set retarding admixture (Formerly known as Flocrete P17)



Description

Donplast P17 is a normal range water reducing and set retarding admixture. Donplast P17 is specially formulated to enable the water content of the concrete to perform more effectively and improve the setting and finishing characteristics of concrete mixes.

Applications

Donplast P17 is suitable for use in the following applications:

- ▲ Production of high-quality concrete of improved durability and lower permeability.
- ▲ Hot weather concreting.
- ▲ Applications where slump retention performance is required.
- ▲ Architectural concrete applications.

Advantages

- ▲ Optimizes cement utilization.
- ▲ Improves the water impermeability characteristics of the concrete mix.
- ▲ Improves the workability of the concrete mix.
- ▲ Improves the early and ultimate compressive strengths.
- ▲ Minimizes segregation and bleeding problems by improving the cohesion of concrete mixes.

Compatibility

Donplast P17 is suitable to use with all types of Portland cement and cement replacement materials. Donplast P17 should not be used in conjunction with other admixtures unless DCP's Technical Department approval is obtained.

If more than one type of admixture is to be used, they must be dispensed into the mix separately.

Standards

Donplast P17 complies with the requirements of Specification for Chemical Admixture for Concrete ASTM C494 as a Type A and D admixture, depending on the used dosage.

Technical Properties @ 77°F (25°C):

Colour:	Brown liquid
Specific gravity:	1.21 ± 0.02
pH:	5 - 7
Chloride content:	Chloride-free

Method of Use

Donplast P17 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 P17 to the concrete mix.

Dosage

Dosage rates will vary depending on the material used, ambient conditions and the requirements of a specific project. For general concreting applications and compliance with ASTM C494 Type A, Donplast P17 recommended dosage is 3.8 to 6.1 fl oz/100 lb (250 - 400 ml/100 kg) of cement or cementitious materials in the mix including GGBFS, PFA or micro-silica.

For compliance with ASTM C494 Type D, Donplast P17 recommended dosage is 6.9 to 12.3 fl oz/100 lb (450 - 800 ml/100 kg) of cement or cementitious materials in the mix including GGBFS, PFA or micro-silica.

Representative trials should be first conducted to determine the optimum dosage of Donplast P17 to meet the performance requirements by using the materials and conditions in actual use.

Effects of Over Dosage

Overdosage of Donplast P17 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.

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Cleaning

Clean Donplast P17 with fresh cold water.

Packaging

Donplast P17 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 P17 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 advice.

Cautions

Health and Safety

Donplast P17 is not classified as a hazardous material. Donplast P17 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 P17 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.

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.

