

Donplast R65

Retarding and water reducing admixture



Description

Donplast R65 is 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 strengths or to facilitate a reduction in the cement content while sustaining and improving mix properties.

Donplast R65 has retarding properties; this effect can be used in concrete where high cement content or high temperatures are involved, or where extended setting time is required.

Applications

- ▲ Roller compacted concrete (RCC).
- ▲ Hot weather concreting.
- ▲ Where workability retention or retardation are required.
- ▲ To produce high quality concrete of improved durability and water tightness.

Advantages

- ▲ Improved workability reduces placing and compaction problems.
- ▲ Workability retention for long distance concreting.
- ▲ Cold joints can be avoided by extending initial and final concrete setting time.
- ▲ Higher strength with same cement content.
- ▲ Cement saving without affecting strength.
- ▲ More durable concrete as a result of reduction in permeability and lower water to cement ratio.

Compatibility

Donplast R65 can be used with all types of Portland cement and cement replacement materials. Donplast R65 is compatible with other DCP admixtures used in the same concrete mix.

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

Technical Properties @ 70°F (21°C):

Colour:	Brown liquid
Specific gravity:	1.22 ± 0.03
Chloride content:	Chloride-free

Standards

Donplast R65 complies with the requirements of Specification for Chemical Admixture for Concrete ASTM C494 as a Type B and D admixture, depending on the used dosage.

Method of Use

Donplast R65 should be added to the concrete with the mixing water to achieve optimum performance.

Automatic dispenser should be used to dispense the correct quantity of Donplast R65 to the concrete mix.

Dosage

The recommended dosage of Donplast R65 is 0.75 - 15 fl oz/100 lb (50 - 975 ml/100 kg) of cement or cementitious materials in the mix including GGBFS, PFA or micro-silica.

Representative trials should be conducted to determine the optimum dosage of Donplast R65 to meet the performance requirements by using the materials and conditions in actual use.

Effects of Over Dosage

Overdosage of Donplast R65 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.

Don Construction Products Inc.

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Setting Time

Although the setting time is dependent on the dosage of Donplast R65, the following factors should be considered:

- i. Retardation is increased with a lower level of tricalcium in the cement.
- ii. Lower temperatures will delay the setting time.
- iii. SRC cement gives higher retardation level than ordinary cement.
- iv. Using more than one type of admixture in the same concrete mix could affect the setting time.
- v. Retardation level is increased when cement replacement materials are used in the concrete mix.

Cleaning

Clean Donplast R65 with fresh cold water.

Packaging

Donplast R65 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 R65 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 R65 is not classified as a hazardous material. Donplast R65 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 R65 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.



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