

Donplast Grout UW

Expansive, plasticizing and Anti-wash admixture for cementitious grout (Formerly known as Flocrete Grout UW)



Description

Donplast Grout UW is an expansive, plasticizing and Anti-wash admixture for cementitious grout, formulated from selected polymers specially designed to produce more cohesive, flowable and shrinkage resistance grout for under water applications. It surrounds the cement particles by gel action to minimize the washout in the underwater of cementitious grout applications.

Applications

Donplast Grout UW is grout admixture that ideally designed produce Anti-wash grout for the following application:

- ▲ Under water micro concrete repair and grouting.
- ▲ Bridge column and jetty piers.
- ▲ Repair to concrete piles.
- ▲ General strengthening by jacketing.
- ▲ Repair and grouting of dams.

Advantages

- ▲ No risk of cement washout when placed underwater.
- ▲ Excellent non-shrinkage characteristics.
- ▲ High early strength.
- ▲ Extremely dense and low permeability.
- ▲ High bond strength.
- ▲ Free flowing.
- ▲ Chloride free.

Method of Use

Proposed Mix

DCP can offer mix design for Anti-wash grout based on the available cement and sand to have workable grout as per the needed application.

Mixing

To ensure proper mixing, a mechanically powered mixer or drill fitted with suitable paddle should be used for quantities up to 100 lb (45 kg). High shear vane mixer is required when mixing large quantities.

The required water content should be accurately measured and added into the mixer or a mixing bucket. Add the full amount of Donplast Grout UW powder at first and mix for 1 - 2 minutes.

Technical Properties:

Colour:	Grey powder
Bulk density:	1.05 ± 0.05 g/cm ³
Expansion: ASTM C827/ C827M-2010	Up to 1%
Chloride content:	Nil
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages

Then slowly add cement and mix for another 1 - 2 minutes then the sand if required and mix for 4 - 5 minutes until smooth even consistency is achieved.

Notes:

- ▲ At low temperatures (below 45°F / 7°C), warm water is recommended to achieve the early strength. And the formwork is recommended to be kept longer time.
- ▲ At high temperatures (95°F / 35°C and above), cold water (less than 70°F / 21°C) must be used for mixing.

Placing and Finishing

Enough materials should be available to achieve continuous fill and to complete the work. Pouring of the mixed grout should be started from one side only to avoid air entrapment.

Areas to be grouted should be clean and sound.

The mixed grout should be placed directly after mixing. Working time will be within 30 minutes and remixing will be needed directly before the application to get the needed flow and expansion.

Care should be taken to keep the unrestrained surface areas of the grout to a minimum.

Also for casting under water, adequate gap between formwork and substrate should be allowed for tremmie pipe while casting vertically and the outlet of the pipe should be embedded all the time inside the grout by at least 8 - 12 inches (20.3 - 30.5 cm).

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Cleaning

All tools should be cleaned immediately after application using fresh water. Hardened materials should be cleaned mechanically.

Packaging

Donplast Grout UW is available in 2.2 lb (1 kg) bags and special packaging size to match needed dosage.

Dosage

Donplast Grout UW dosage is from 5% - 10% of OPC weight. It has been aimed to make it high dosage by including cement powder to make sure of proper active materials distribution during site mixing.

Storage

Donplast Grout UW has a shelf life of 12 months from date of manufacture if stored at temperatures between 36°F (2°C) and 122°F (50°C).

If these conditions are exceeded, DCP Technical Department should be contacted for advice.

Cautions

Health and Safety

Donplast Grout UW is of low hazard and may cause irritation to skin or eyes.

In case of accidental contact with skin or eyes, immediately flush with plenty of water for at least 10 minutes and seek medical advise if necessary.

For further information refer to the Material Safety Data Sheet.

Fire

Donplast Grout UW is nonflammable.

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- ▲ Surface treatments
- ▲ Grouts and anchors.
- ▲ Concrete repair.
- ▲ Flooring systems.
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- ▲ Sealants.
- ▲ Waterproofing.
- ▲ Adhesives.
- ▲ Tile adhesives and grouts.
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- ▲ 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.