

# Flocrete Anti-Wash

Antiwash admixture system for underwater concrete



## Description

Flocrete Anti-Wash is concrete admixture formulated from selected polymers specially designed to produce more cohesive grouting and concrete mixes. It surrounds the cement particles by gel action to minimise the washout in the underwater cementitious applications.

## Applications

- ▲ Underwater concrete applications.
- ▲ Foundations and piles where high water table occurs.
- ▲ To produce cohesive concrete mixes.
- ▲ Fluid grouting that may have subject to washout.

## Advantages

- ▲ Higher concrete strength in the underwater concrete applications by significant minimizing the washout of cement particles.
- ▲ Improve workability by reducing placing and compaction problems.
- ▲ Minimizing segregation and bleeding problems by improving cohesion.
- ▲ More durable concrete as a result of reduction in permeability and lower water to cement ratio.

## Compatibility

Flocrete Anti-Wash can be used with all types of Portland cement and cement replacement materials. Flocrete Anti-Wash is compatible with DCP concrete admixtures used in the same concrete mix.

In case of other types of admixtures have to be used, contact DCP technical department for more advice.

## Method of Use

Flocrete Anti-Wash should be added gradually after adding all of materials of concrete mix and should allow for 2 minutes extra mixing time.

## Reduction of Washout

Flocrete Anti-Wash will minimise the washout of cement and fines particles in the mix significantly, also other factors will help to minimise the washout by making a mix design to get more cohesive mix like increasing the sand percentage over the coarse aggregates percentage.

## Technical Properties:

Colour:	Brown powder
Bulk density:	0.6 ± 0.1 g/cm <sup>3</sup>
Chloride content:	Nil
Air entrainment:	Typically less than 2% additional air is entrained above control mix at normal dosages

To check the percentage of washout reduction, normally a comparison test should be done between control concrete mix without using Flocrete Anti-Wash admixture versus concrete mix using Flocrete Anti-Wash, fill a perforated basket with concrete mix and drop it through the water for 3 to 5 times and measure the weight loss on each time.

Normally up to 80% of washout reduction can be achieved by using the Flocrete Anti-Washout comparing with control mix.

## Packaging

Flocrete Anti-Wash is available in 22 lb (10 kg) bags.

## Dosage

The recommended dosage of Flocrete Anti-Wash is 0.25 - 1.0 % of cementitious materials weight in the mix, including GGBFS, PFA or microsilica.

Representative trials should be conducted to determine the optimum dosage of Flocrete Anti-Wash to meet the performance requirements by using the materials and conditions in actual use.

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## Effects of Over Dosage

Overdosage of Flocrete Anti-Wash will cause the following:

- ▲ Significant increase in retardation.
- ▲ Affecting the workability significantly.

Ultimate concrete strength will not be adversely affected unless of using a dosage of more than double of recommended dosage.

## Setting Time

Although the setting time is dependent on the dosage of Flocrete Anti-Wash, the following factors should be considered:

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

## Storage

Flocrete Anti-Wash has a shelf life of 12 months from date of manufacture if stored unopen in its sealed bags protected from moisture.

If these conditions are exceeded, contact DCP Technical Department for advice.

## Cautions

### Health and Safety

Flocrete Anti-Wash is not classified as a hazardous material.

Flocrete Anti-Wash 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

Flocrete Anti-Wash is nonflammable.

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