

CLASSIC CRETETM - AW 501

Antiwash admixture system for underwater concrete

Description

Classic Crete- AW 501 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. little bit of body text

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

Classic Crete-AW501 can be used with all types of Portland cement and cement replacement materials. Classic Crete AW-501 is compatible with DCP concrete admixtures used in the same concrete mix. In case of other types of admixtures have to be used, contact Primadonn Buildtech pvt ltd technical department for more advice.

Method of Use

Classic Crete - AW 501 should be added gradually after adding all of materials of concrete mix and should allow for 2 minutes extra mixing time.

Reduction of Washout

Classic Crete – AW 501 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 coarse increasing the sand percentage over the aggregates percentage.

Technical Properties

Colour	: Brown powder
Bulk density	: $0.6 \pm 0.1 \text{ g/cm}^3$
Chloride content BS 5075	: Nil
	Than Typically less
Air entrainment	: 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 Classic Crete- AW 501 admixture versus concrete mix using Classic Crete AW-501, 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 Classic Crete-AW 501 comparing with control mix.

Packaging

Classic Crete- AW 501 is available in 10 kg bags.

Dosage

The guidance dosage of Classic Crete AW-501 is 0.25 - 1.0 kg/100 kg of cementitious materials in the mix, including GGBFS, PFA or microsilica. Representative trials should be conducted to determine the optimum dosage of Classic Crete-AW 501 to meet the performance requirements by using the materials and conditions in actual use.

Effects of Over Dosage

Over dosing of Classic Crete AW-501 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.

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Setting Time

Although the setting time is dependent on the dosage of Classic Crete- AW 501, the following factors should be considered:

- Retardation is increased with lower levels of tri- calcium in the cement.
- Lower temperatures will delay the setting time.
- SRC cement gives higher retardation level 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

Classic Crete- AW 501 has a shelf life of 12 months from date of manufacture stored unopened in its sealed bags protected from moisture.

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

Cautions

Health and Safety

Classic Crete -AW 501 is not classified as hazardous material.

Classic Crete AW-501 should not come into contact with skin and eyes.

In case of contact with eyes wash immediately with plenty of water and seek medical advice promptly.

For further information refer to the Material Safety Data Sheet.

Fire

Classic Crete- AW 501 is nonflammable.

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- Waterproofing.
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- Building products.
- Structural strengthening.
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