

CWC® VISCOMIX

Viscosity Modifying Admixture

Description

CWC® VISCOMIX viscosity modifying admixture (VMA) is a ready-to-use, liquid admixture that is specially developed for producing concrete with enhanced viscosity and controlled rheological properties.

Concrete with CWC® VISCOMIX admixture exhibits superior stability, increasing resistance to segregation and facilitating placement and consolidation. CWC® VISCOMIX meets AS 1478 for Type SN admixtures.

Advantages:

- Modifies viscosity of concrete
- Easy to dispense.
- Controls bleeding
- Modifies rheological properties.
- Provides flexibility in mixture proportioning and batching.
- Provides concrete stability during transport and placement.
- Reduces segregation, even with highly-fluid concrete mixtures.
- Enhances pumping and finishing.
- Enhances surface appearance.
- Provides superior and predictable in-place concrete properties.
- Facilitates production of highly-fluid mixtures such as Self-Compacting Concrete (SCC) or Super Workable Concrete (SWC)
- Reduces losses from washout in underwater concrete applications.

Domains of application

- Concrete containing “gap-graded” aggregates
- Lean concrete mixtures
- Concrete containing manufactured sand.
- Concrete as a pumping aid
- Concrete as a finishing aid
- Self-Compacting Concrete (SCC) or Super Workable Concrete (SWC)
- Underwater concrete applications

PERFORMANCE CHARACTERISTICS

Setting Time

CWC® VISCOMIX admixture has little to no impact on concrete setting time within the recommended dosage range of 150-900 mL/100 kg of cementitious material.

Compressive Strength

CWC® VISCOMIX admixture does not affect the compressive strength of concrete.

Viscosity

CWC® VISCOMIX admixture will exhibit an increase in concrete viscosity with increasing dosage of the admixture.

Workability

CWC® VISCOMIX admixture enhances workability.

Air Content

CWC® VISCOMIX admixture does not affect the air content in either air-entrained or non-air-entrained concrete.

Typical dosages of air-entraining admixtures may be used to achieve the desired air content.

Dosage

The recommended dosage range for CWC® VISCOMIX admixture is 150-900 mL/100 kg of cementitious materials.

A dosage of 150-400 mL/100 kg is recommended for typical concrete mixtures requiring “more body” to facilitate pumping and finishing procedures.

A dosage of up to 900 mL/100 kg is recommended to provide stability in self-compacting, super workable and underwater concrete mixes.

Because of variations in concrete materials, jobsite conditions and/or applications dosages outside of the recommended range may be required.

MIXING

CWC® VISCOMIX admixture is typically added with the initial mix water.

Alternatively, CWC® VISCOMIX admixture may be added after all other concrete ingredients have been batched and thoroughly mixed, either at the batch plant or at the jobsite.

COMPATABILITY

CWC® VISCOMIX admixture is compatible with most other admixtures used in the production of quality concrete including normal, mid-range and high-range water-reducing admixtures and air-entraining admixtures. CWC® VISCOMIX admixture is also compatible with typical accelerators, retarders, extended set-control admixtures, corrosion inhibitors and shrinkage reducing admixtures. However, a field trial is recommended to ensure appropriate performance.

Packaging

 230 Kgs Barrel & bulk in 10 KL tanker



Shelf Life: If stored in unopened containers at normal ambient temperatures, a shelf-life of approximately 12 months.

Freezing point: Approximately -2°C.

Precautions

Not to be stored at high temperatures for long periods. Should be protected from frost. It is Non-toxic and formulated from chemicals which present no fire or health hazards. Spillages should be washed down immediately with water.

Safety

Before use, refer to the Material Safety Data Sheet. The MSDS is available on www.cwcchemicals.com

Additional information

The CWC range of associated products include high strength cementitious, epoxy grout, polyester resin-based mortar, Resin anchoring systems. Also available a range of products for use in construction; viz., admixtures, curing compounds, release agents, flooring systems and repair mortars.

Separate datasheets are available on these products.

Regional offices

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