

Technical Data Sheet
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Visco-Tech® VMA 400

Viscosity Modifying Admixture,

Visco-Tech® VMA 400 modifies viscosity of concrete with thixotropic properties.

Complies European Norm: EN 934-2

Description:

Visco-Tech® VMA 400 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 containing **Visco-Tech® VMA 400** admixture exhibits superior stability, thus increasing resistance to segregation and facilitating placement and consolidation.

Uses:

- Under Water Concreting
- Concrete containing “gap-graded” aggregates
- Lean concrete mixtures
- Concrete containing manufactured sand
- Concrete as a pumping aid
- Concrete as a finishing aid
- Concrete mixtures requiring “more body”
- Self-Consolidating Concrete (SCC)
- Pervious Concrete
- Self-Consolidating Grout

Advantages:

- Controls bleeding
- 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 concrete mixtures such as Self-Consolidating Concrete (SCC)

Dosage:

The recommended dosage range for **Visco-Tech® VMA 400** admixture is 120-900 ml / 100 kg of cement (weight) materials.

A dosage of 120-900 ml / 100 kg is recommended for typical concrete mixtures requiring “more body” to facilitate pumping and finishing procedures.

A dosage of 700 to 900 ml / 100 kg is recommended to provide stability in self-consolidating concrete mixtures. Because of variations in concrete materials, job site conditions and/or applications, dosages outside of the suggested range may be required.

Mixing:

Visco-Tech® VMA 400 admixture is typically added with the initial mix water. Alternately, **Visco-Tech® VMA 400** admixture may be added after all other concreting ingredients have been batched and thoroughly mixed, either at the batch plant or at the jobsite.

Compatibility:

Visco-Tech® VMA 400 admixture is compatible with most admixtures used in the production of quality concrete including normal, mid-range and high-range water-reducing admixtures and air entrainers.

Visco-Tech® VMA 400 admixture is also compatible with typical accelerators, retarders, extended set-control admixtures, corrosion inhibitors, and shrinkage reducers. However, a field trial mixture is recommended to ensure appropriate performance

Application Method:

Concrete should be placed according to good concrete practices and proper curing procedures should take place.

Storage and Handling Storage Temperature:

Visco-Tech® VMA 400 admixture must be stored at temperatures above 0 °C and below 54 °C. Protect **Visco-Tech® VMA 400** admixture from freezing because it cannot be reconstituted after thawing.

Shelf Life: A product stability evaluation has shown that **Visco-Tech® VMA 400** admixture has a shelf life of 8 months.

Please contact **The Unixs Construction Chemicals** representative regarding suitability for use and dosage recommendations if the stated minimum shelf life of **Visco-Tech® VMA 400** admixture has been exceeded.

Packaging:

Visco-Tech® VMA 400 admixture is supplied in 5 L, 20 L, 200 L and 1000 L.

For additional information on Visco-Tech® VMA 400 admixture or its use in developing concrete mixtures with special performance characteristics, contact **The Unixs Construction Chemicals** representative.

Please consult our “Technical Services”.

The data presented in this leaflet are in accordance with the present state of our knowledge, but do not absolve the user from carefully checking all supplies immediately on receipt. We reserve the right to alter product constants within the scope of technical progress or new developments. The recommendations made in this leaflet should be checked by preliminary trials because of conditions during processing over which we have no control, especially where other companies' raw materials are also being used. The recommendations do not absolve the user from the obligation of investigating the possibility of infringement of third parties' rights and, if necessary, clarifying the position.

The Unixs SARLU

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