

Description

Rheomac VMA 362 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 Rheomac VMA 362 admixture exhibits superior stability, thus increasing resistance to segregation and facilitating placement and consolidation.

Applications

Recommended for use in:

- 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”
- Rheodynamic® Self-Consolidating Concrete (SCC)
- Liquid Sand™ program
- Pervious Concrete
- Self-Consolidating Grout

RHEOMAC® VMA 362

Viscosity-Modifying Admixture

Features

- Modifies viscosity of concrete
- Thixotropic properties

Benefits

- 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 Rheodynamic Self-Consolidating Concrete (SCC)

Performance Characteristics

Setting Time: Rheomac VMA 362 admixture has little to no impact on concrete setting time within the recommended dosage range of 2-14 fl oz/cwt (130-920 mL/100 kg) of cementitious materials.

Compressive Strength: Rheomac VMA 362 admixture does not affect the compressive strength of concrete.

Viscosity: Concrete containing Rheomac VMA 362 admixture will exhibit an increase in viscosity with increasing dosage of the admixture. This desirable characteristic facilitates concrete placement, consolidation and finishing and provides stability to very fluid concrete mixtures.

Workability: Because of its thixotropic properties, concrete containing Rheomac VMA 362 admixture can increase in viscosity if left in a mixing vessel without agitation. Workability can be restored by simply remixing the concrete mixture.

Air Content: Rheomac VMA 362 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.

Product Data: RHEOMAC® VMA 362

Guidelines for Use

Dosage: The recommended dosage range for Rheomac VMA 362 admixture is 2-14 fl oz/cwt (130-910 mL/100 kg) of cementitious materials. A dosage of 2-6 fl oz/cwt (130-390 mL/100 kg) is recommended for typical concrete mixtures requiring “more body” to facilitate pumping and finishing procedures. A dosage of up to 14 fl oz/cwt (910 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: Rheomac VMA 362 admixture is typically added with the initial mix water. Alternately, Rheomac VMA 362 admixture may be added after all other concreting ingredients have been batched and thoroughly mixed, either at the batch plant or at the jobsite.

Product Notes

Compatibility: Rheomac VMA 362 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. Rheomac VMA 362 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.

Storage and Handling

Storage Temperature: Rheomac VMA 362 admixture must be stored at temperatures above 32 °F (0 °C) and below 130 °F (54 °C). Protect Rheomac VMA 362 admixture from freezing because it cannot be reconstituted after thawing.

Shelf Life: A product stability evaluation has shown that Rheomac VMA 362 admixture has a shelf life of 8 months. Please contact your BASF Construction Chemicals representative regarding suitability for use and dosage recommendations if the stated minimum shelf life of Rheomac VMA 362 admixture has been exceeded.

Dispensing: Rheomac VMA 362 admixture should be dispensed using direct-feed dispensing systems. It is recommended that fail-safe features must be included in this dispenser application for potential meter malfunctions. Consult your local BASF Construction Chemicals sales representative for the proper dispensing equipment for Rheomac VMA 362 admixture.

Packaging

Rheomac VMA 362 admixture is supplied in 55 gal (208 L) drums, 275 gal (1040 L) totes, and by bulk delivery.

Related Documents

Material Safety Data Sheets: Rheomac VMA 362 admixture.

Additional Information

For additional information on Rheomac VMA 362 admixture or its use in developing concrete mixtures with special performance characteristics, contact your BASF Construction Chemicals representative.

The Admixture Systems business of BASF Construction Chemicals is a leading provider of innovative additives for specialty concrete used in the ready mix, precast, manufactured concrete products, underground construction and paving markets throughout the NAFTA region. The Company's respected Master Builders brand products are used to improve the placing, pumping, finishing, appearance and performance characteristics of concrete.

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Admixture Systems

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