

# RHEOMAC<sup>®</sup> VMA 362

Viscosity modifying admixture

## 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 with **RHEOMAC VMA 362** admixture exhibits superior stability, increasing resistance to segregation and facilitating placement and consolidation. **RHEOMAC VMA 362** meets AS 1478 for Type SN admixtures.

## RECOMMENDED FOR

- 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<sup>®</sup> Self-Consolidating Concrete (SCC) or Super Workable Concrete (SWC)
- Liquid Sand<sup>™</sup>

## FEATURES AND BENEFITS

- **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 Rheodynamic<sup>®</sup> Self-Consolidating Concrete (SCC) or Super Workable Concrete (SWC)**

## PERFORMANCE CHARACTERISTICS

### Setting Time

**RHEOMAC VMA 362** 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

**RHEOMAC VMA 362** admixture does not affect the compressive strength of concrete.

### Viscosity

**RHEOMAC VMA 362** admixture will exhibit an increase in concrete viscosity with increasing dosage of the admixture.

This desirable characteristic facilitates concrete placement, consolidation and finishing and provides stability to very fluid concrete mixes.

### Workability

**RHEOMAC VMA 362** admixture enhances workability.

### 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.

## DOSAGE

The recommended dosage range for **RHEOMAC VMA 362** 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 super workable (self-consolidating) concrete mixtures.

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

## COMPATABILITY

**RHEOMAC VMA 362** 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.

**RHEOMAC VMA 362** 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.

## STORAGE

**RHEOMAC VMA 362** admixture must be stored at temperatures above 0°C and below 54°C.

Protect **RHEOMAC VMA 362** admixture from freezing as 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.



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Please contact your local BASF Technical Sales 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.

## PACKAGING

**RHEOMAC VMA 362** is available in 20L Cubes, 205L Drums and 1000L Pallecons.

## PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the BASF **Material Safety Data Sheet (MSDS)** from our office or our website.



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## STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this **BASF** publication are based on the present state of our best scientific and practical knowledge. As the information herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness either expressed or implied is given other than those required by law. The user is responsible for checking the suitability of products for their intended use.

## NOTE

Field service where provided does not constitute supervisory responsibility. Suggestions made by **BASF** either orally or in writing may be followed, modified or rejected by the owner, engineer or contractor since they, and not **BASF**, are responsible for carrying out procedures appropriate to a specific application.

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