



The Chemical Company

RHEOMAC[®] VMA 358

Viscosity modifying admixture

DESCRIPTION

RHEOMAC VMA 358 organic, viscosity modifying admixture (VMA) is a ready-to-use, liquid admixture developed for producing concrete with enhanced viscosity and controlled Rheological properties. Concrete with **RHEOMAC VMA 358** admixture exhibits superior stability, increasing resistance to segregation and facilitating placement. **RHEOMAC VMA 358** 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[®] Self-Consolidating Concrete (SCC) or Super Workable Concrete (SWC)
- Liquid Sand[™]

FEATURES AND BENEFITS

- **Controlled viscosity**
- **Stability during transport and placement**
- **Reduced segregation, even with highly-fluid concrete mixtures**
- **Enhances pumping and finishing**
- **Reduced sagging helping plastic concrete maintain its shape on slopes and arches**
- **Facilitates production of highly-fluid concrete mixtures such as Rheodynamic SCC**
- **Superior and predictable in-place concrete properties**
- **Enhances surface appearance**
- **Flexibility in mixture proportioning**

PERFORMANCE CHARACTERISTICS

Setting Time

RHEOMAC VMA 358 admixture has little to no impact on concrete setting time within the recommended dosage range of 130-650 mL/100 kg of cementitious material.

Compressive Strength

RHEOMAC VMA 358 admixture does not affect the compressive strength of concrete. Slight increases in compressive strength have, however, been noted in Rheodynamic SCC mixtures containing **RHEOMAC VMA 358** admixture.

Workability

A slight decrease in slump or slump flow may be noted after the addition of **RHEOMAC VMA 358** admixture due to the increase in concrete viscosity. If necessary, the slight decrease in slump or slump flow can be offset easily by a minor increase in water-reducing or high-range water-reducing admixture dosage. Very high slump flows can be achieved in Rheodynamic SCC produced with **RHEOMAC VMA 358** admixture.

Slump Retention

In general, the slump retention characteristic of concrete mixtures containing **RHEOMAC VMA 358** admixture is similar to that of plain concrete.

Air Content

Typical dosages of air-entraining admixtures may be used to achieve the desired air content when using **RHEOMAC VMA 358** admixture.

DOSAGE

The recommended dosage range for **RHEOMAC VMA 358** admixture is 130-650 mL/100 kg of cementitious materials for most concrete mixtures. A dosage of 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 650 mL/100 kg is recommended to provide stability in 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 358 admixture is typically added with the initial mix water. Alternately, **RHEOMAC VMA 358** 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

Do not use RHEOMAC VMA 358 admixture with admixtures containing beta-naphthalene sulfonate such as RHEOBUILD 1000 or POLYHEED 850. Erratic behaviors in slump, slump flow and pumpability may be experienced.

RHEOMAC VMA 358 admixture is compatible with most other admixtures used in the production of quality concrete including normal, mid-range and high-range water-reducing admixtures, air entrainers, accelerators, retarders, extended set-control admixtures, corrosion inhibitors and shrinkage reducers. However a field trial is recommended to ensure appropriate performance.



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STORAGE

RHEOMAC VMA 358 admixture must be stored at temperatures above 5 °C to avoid dispensing difficulties due to thickening. **Do not allow RHEOMAC VMA 358 admixture to freeze since it cannot be reconstituted after thawing.**

SHELF LIFE

RHEOMAC VMA 358 admixture has a minimum shelf life of 12 months. Depending on storage conditions, the shelf life may be greater than stated. Contact your local BASF Technical Sales Representative regarding suitability for use and dosage recommendations if the shelf life of RHEOMAC VMA 358 admixture has been exceeded.

PACKAGING

RHEOMAC VMA 358 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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