

MasterMatrix 362

Viscosity modifying admixture

Material Description

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

Areas of Application

- 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-Compacting Concrete (SCC) or Super Workable Concrete (SWC)
- Underwater concrete applications

Characteristics 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 Self-Compacting Concrete (SCC) or Super Workable Concrete (SWC)
- Reduces losses from washout in underwater concrete applications

Performance Data

Setting Time

MasterMatrix 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

MasterMatrix 362 admixture does not affect the compressive strength of concrete.

Viscosity

MasterMatrix 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

MasterMatrix 362 admixture enhances workability.

Air Content

MasterMatrix 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 **MasterMatrix 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 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.



MasterMatrix 362

Viscosity modifying admixture

Mixing

MasterMatrix 362 admixture is typically added with the initial mix water.

Alternately, MasterMatrix 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.

Compatibility

MasterMatrix 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.

MasterMatrix 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.

Packaging

MasterMatrix 362 is available in 20 litre cubes, 1000 litre pallecons and bulk delivery.

Storage & Shelf Life

Keep only in the original container in a cool, well-ventilated place. Protect from direct sunlight. Store protected against freezing.

MasterMatrix 362 has a shelf life of 12 months.

Precautions

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

Disclaimer

MasterMatrix-362-ANZ-VI0-0723

STATEMENT OF RESPONSIBILITY

The technical information and application advice given in this MB Solutions Australia Pty Ltd 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 and for ensuring that the application and use of the product is in accordance with the manufacturer's guidelines and recommendations.

NOTE

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

MB Solutions Australia Pty Ltd

ABN 69 634 934 419
Unit 102, 2 Burbank Place
Norwest NSW 2153

Freecall: 1300 227 300

www.master-builders-solutions.com/en-au

MB Solutions New Zealand Ltd

45C William Pickering Drive
Albany, Auckland
New Zealand

Phone: +64 9 414 7233

Emergency Advice:

1300 954 583 within Australia (24hr)
0800 001 607 within New Zealand

