

MasterRoc MF 501

High-performance plasticizing and water-reducing admixture for mine backfill mixes

MATERIAL DESCRIPTION

MasterRoc MF 501 admixture is a liquid, water reducing admixture used to enhance the properties of mine backfill.

APPLICATIONS

- Paste fill.
- High-density fill.
- Cemented rock fill.
- Hydraulic fill.

FEATURES

- Reduced water content.
- Improved slump and flow characteristics.
- Normal setting time and rate of hardening.
- Reduces pumping and distribution pressures.

BENEFITS

- Backfill optimization and/or cost savings by binder reduction (cement/slag cement/fly ash).
- Enhances workability (rheological properties) in all types of backfills, requiring less water.
- Higher in-situ strengths at all ages.
- Reduces segregation of high-density slurries.
- Reduces permeability and shrinkage in hardened fill.
- Potentially reduces cycle time and increases production performance characteristics.

GUIDELINES FOR USE

Dosage:

The dosage range of **MasterRoc MF 501** admixture may be affected by the total binder content of the mixture and by the particle size distribution of the backfill material. The normal dosage range of **MasterRoc MF 501** admixture is 300-900 mL/tonne of backfill.

Mixing:

MasterRoc MF 501 admixture can be dispensed directly into the water or the entire wetted out mix. **MasterRoc MF 501** admixture should not be dispensed directly on to the dry binder or with other admixtures.

PRODUCT NOTES

Corrosivity:

Non-Chloride, Non-Corrosive: **MasterRoc MF 501** admixture does not contain intentionally added calcium chloride or chloride-based ingredients.

Compatibility:

When used in conjunction with other admixtures, each admixture must be dispensed separately into the mix. The admixture is not typically chemically reactive with most backfill materials. Testing is recommended prior to use.

Do not use **MasterRoc MF 501** admixture with admixtures containing beta-naphthalene-sulfonate. Erratic behaviours in slump, slump flow and pumpability may be experienced.

For directions on the proper evaluation of **MasterRoc MF 501** admixture in specific backfill applications, contact your local sales representative.

STORAGE AND HANDLING

Storage Temperature:

The minimum recommended storage temperature is 5 °C. If **MasterRoc MF 501** admixture freezes, thaw at temperatures above 2 °C and completely reconstitute by mild mechanical agitation. Do not use pressurized air for agitation.

Shelf Life:

MasterRoc MF 501 admixture has a minimum shelf life of 12 months. Depending on storage conditions, the shelf life may be greater than stated. Please contact your local sales representative regarding suitability for use and dosage recommendations if the shelf life of **MasterRoc MF 501** admixture has been exceeded.

PACKAGING

MasterRoc MF 501 admixture is supplied in 210 L drums, 1000 L flowbins or by bulk delivery.

ADDITIONAL INFORMATION

For additional information on **MasterRoc MF 501** admixture and our entire portfolio of backfill solutions, contact your local sales representative.

MasterRoc MF 501

High-performance plasticizing and water-reducing admixture for mine backfill mixes

NOTE

Technical support, where provided, does not constitute supervisory responsibility. For additional information contact your local MB Construction Chemicals Solutions South Africa (Pty) Ltd representative. MB Construction Chemicals Solutions South Africa (Pty) Ltd shall not be liable for technical advice provided.

MB Construction Chemicals Solutions South Africa (Pty) Ltd reserves the right to have the true cause of any difficulty determined by accepted test methods. Undertaking such tests is not, and shall not be deemed to be, an admission of liability or an assumption of any risk, loss, damage or liability.

QUALITY AND RESPONSIBLE CARE

All products originating from MB Construction Chemicals Solutions South Africa (Pty) Ltd are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, environmental and occupational health and safety standards.

* Properties listed are based on laboratory controlled tests.

DISCLAIMER

The technical information and application advice given in this MB Construction Chemicals Solutions South Africa (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.