

# MasterRoc<sup>®</sup> MF 701 Formerly MEYCO MINEFILL 701

## High performance backfill admixture

### MATERIAL DESCRIPTION

**MasterRoc MF 701** ready-to-use, non-chloride liquid admixture is used for making more uniform and predictable high-performance backfill. **MasterRoc MF 701** admixture retards or stabilizes setting time by controlling the hydration of portland cement and other cementitious materials to facilitate pumping and placing operations. It can be used to stabilize cement slurries for cemented rock fills, hydraulic and paste backfills.

### APPLICATION

Recommended for use in:

- Stabilization of cement slurries for cemented rock fill
- Stabilization of paste, high density and hydraulic fill

### FEATURES

- Reduced water content leading to higher in-situ compressive strengths
- Controlled setting time characteristics
- Improved slump and flow characteristic

### BENEFITS

- A longer working material ("open time")
- Provides flexibility in the scheduling of backfilling operations
- Dramatically reduces potential of pipe blockages due to control of cement hydration and setting time
  - Up to 25% increase in batches per day
  - Up to 45% decrease in flushing of pipe
  - Provides the opportunity for "Hot Change" between shifts
  - Reduces piping replacement costs
- Reduces pressure losses and longer transportation distances
- Improved reliability of fill delivery and increased production
- Increased compressive strength
- Mix optimization and/or cost savings by binder reduction (cement/slag cement/fly ash)
- Cleaner mixing and agitator tanks
  - Easier maintenance

### PERFORMANCE CHARACTERISTIC

**Rate of Hardening:** The ambient temperature and the temperature of the backfill mixture, distribution piping, substrate and air, affect the setting or hardening rate of a backfill mixture. At higher temperatures, backfill mixtures harden more rapidly which causes problems with distribution and placement. One of the functions of

**MasterRoc MF 701** admixture is to retard the set of the binder portion of the backfill. Within the normal dosage range, **MasterRoc MF 701** admixture will generally

extend the working and setting times of backfills by approximately 2 to 10 hours, depending on the dosage of the admixture, the backfill materials and temperatures. Trial mixes should be made under approximate site conditions to determine the dosage required

**Compressive Strength:** Backfills produced with **MasterRoc MF 701** admixture will generally develop higher strengths than plain backfill, when the admixture is used within the recommended dosage range and under normal, comparable curing conditions.

### GUIDELINES FOR USE

Dosage: **MasterRoc MF 701** admixture is recommended for use at a dosage of 400 to 1300 mL per tonne (6 to 20 fl oz per ton) of wet backfill for most backfill mixtures using average backfill ingredients. Because of variations in backfill operations and backfilling materials, dosages other than the recommended amounts may be required. In such cases, contact your Master Builders Solutions sales representative.

### PRODUCT NOTES

**Corrosivity- Non-Chloride, Non-Corrosive:** **MasterRoc MF 701** admixture will neither initiate nor promote corrosion of reinforcing steel in concrete. This admixture does not contain intentionally-added calcium chloride or other chloride-based ingredients.

**Compatibility:** **MasterRoc MF 701** admixture may be used in combination with any Master Builders Solutions admixture. When used in conjunction with another admixture, each admixture must be dispensed separately into the mix.

### STORAGE AND HANDLING

Storage Temperature: If **MasterRoc MF 701** admixture freezes, thaw at 35 °F (2 °C) or above and completely reconstitute by mild mechanical agitation. Do not use pressurized air for agitation. Shelf Life: **MasterRoc MF 701** admixture has a minimum shelf life of 12 months. Depending on storage conditions, the shelf life may be greater than stated. Please contact your Master Builders Solutions sales representative regarding suitability for use and dosage recommendations if the shelf life of **MasterRoc MF 701** admixture has been exceeded.

### PACKAGING

**MasterRoc MF 701** admixture is supplied in specially designed 205litre drum and 1000litre IBC delivery.

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## RELATED DOCUMENTS

Material Safety Data Sheets: **MasterRoc MF 701** admixture.

## ADDITIONAL INFORMATION

For more information on **MasterRoc MF 701** admixture, contact your local sales representative.

*The Admixture Systems business of Master Builders Solutions Construction Chemicals division is a leading provider of innovative admixtures for specialty concrete used in the ready-mixed, precast, manufactured concrete products, underground construction and paving markets throughout the North American 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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