MasterRoc® MF 703
High-performance retarding admixture for backfill mixtures

Description
MasterRoc MF 703 ready-to-use liquid admixture is used for producing more uniform and predictable quality backfill by retarding setting time.

Applications
Recommended for use in:
- Paste fill
- Cemented rock fill
- Hydraulic fill

Features
- Reduced water content required for a given workability
- Retarded setting characteristics
- Controlled retardation – depending on the addition rate

Benefits
- Improved pumpability
- Reduced segregation
- Flexibility in scheduling of filling operations
- Offsets effects of early stiffening during extended delays between mixing and final placement
- Increased compressive strengths

Performance Characteristics
Rate of Hardening: The temperature of the backfill mixture and borehole, stope, etc. affect the hardening rate of the backfill. At higher temperatures, backfill mixtures stiffen more rapidly, which may cause problems with pumping. MasterRoc MF 703 admixture retards the set of the backfill mixture. Within the normal dosage range, it will generally extend the setting time of backfill containing normal portland cement approximately 1.5 to 8 hours compared to that of a non-retarding backfill mixture, depending on site-specific conditions. Trial mixtures should be made with materials approximating mine conditions to determine the dosage required.

Compressive Strength: Backfill produced with MasterRoc MF 703 admixture will have rapid strength development after initial set occurs.

Guidelines for Use
Dosage: MasterRoc MF 703 admixture is recommended for use at a dosage of 2 - 4 fl oz/cwt (130 - 260 mL/100 kg) of cementitious materials for most backfill mixtures using typical backfill ingredients. Because of variations in mine conditions and backfill materials, dosage rates other than the recommended amounts may be required. In such cases, contact your local sales representative.

MasterRoc MF 703 admixture may be used at less than the recommended dosage for the purpose of retardation only.
Product Notes

Compatibility: MasterRoc MF 703 admixture may be used in combination with any BASF admixtures. When used in conjunction with other admixtures, each admixture must be dispensed separately into the mixture.

Storage and Handling

Storage Temperature: MasterRoc MF 703 admixture should be stored above freezing temperatures. If this product 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 703 admixture has a minimum shelf life of 18 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 703 admixture has been exceeded.

Packaging

MasterRoc MF 703 admixture is supplied in 55 gal (208 L) drums, 275 gal (1040 L) totes and by bulk delivery.

Related Documents

Safety Data Sheets: MasterRoc MF 703 admixture

Additional Information

For additional information on MasterRoc MF 703 admixture or its use in developing a backfill mixture with special performance characteristics, contact your local sales representative.

The Admixture Systems business of BASF’s Construction Chemicals division is the leading provider of solutions that improve placement, pumping, finishing, appearance and performance characteristics of specialty concrete used in the ready-mixed, precast, manufactured concrete products, underground construction and paving markets. For over 100 years we have offered reliable products and innovative technologies, and through the Master Builders Solutions brand, we are connected globally with experts from many fields to provide sustainable solutions for the construction industry.

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