

MasterRoc MF 506

Polymer admixture for improving cementitious mining backfill

Material Description

MasterRoc MF 506 is a liquid admixture for making better, more uniform and more predictable higher quality cementitious backfill mixes. It retards the setting time to facilitate transportation, pumping, placing and curing.

Areas of Application

MasterRoc MF 506 admixture is recommended for use in all type of cementitious mining backfill applications where retardation of set and improved performance (particularly improved pumpability and strength) are required or desired.

MasterRoc MF 506 admixture improves the pumpability of the backfill mix and provides some retardation and strength gain by reducing the water content for a given rheology. When used in conjunction with another admixture each admixture must be dispensed separately into the mix.

Characteristics & Benefits

MasterRoc MF 506 admixture aids in the production of backfill mixes with these special qualities.

- Mild to extended retardation - depending on dosage
- Greater pumpability with superior rheology
- Reduced water content for a given consistency
- Increased strength – compressive & flexural
- Greater economy in a mix designed for a given strength, slump and air content
- Minimum cracking
- Easier placement - economy in placement
- Greater durability
- Cost savings. Using MasterRoc MF 506 admixture can enable cost reductions per m³ of fill due to binder reduction for similar final strengths
- Reduced segregation of materials, particularly in lean mixes and high slump
- More efficient scheduling, faster construction and earlier occupancy
- Potential energy savings in steam cured concrete by reducing curing temperatures and/or steaming time necessary to reach desired transfer strengths

Dosage

MasterRoc MF 506 is used at the rate of 200-300ml per 100kg cement. However, dose rates outside the recommended may be used following trial mixes.

Rate of Hardening

The temperature of the concrete mix and the ambient temperature affect the rate of hardening of the backfill mix. At higher temperatures more rapid hardening may reduce placing times of the mix. By varying the dosage of **MasterRoc MF 506**, the backfill can have a more desirable rate of hardening and workability by reducing the water content for a given rheology. Since setting time is also influenced by the chemical and physical composition of the basic ingredients of the mix, trial mixes should be made with the job materials approximating job conditions to determine the dosage required for a given degree of retardation, workability and final strengths.

Compressive Strength

A mix containing **MasterRoc MF 506** develops higher early and ultimate strengths, when compared to a plain mix.

Packaging

MasterRoc MF 506 is available in 1000 litre pallecons.

Storage & Shelf Life

Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Store protected against freezing. Protect from direct sunlight. Protect from temperatures below: 0 °C. The packed product must be protected from temperatures below the indicated one.

MasterRoc MF 506 has a shelf life of 12 months.



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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

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STATEMENT OF RESPONSIBILITY

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