

MasterRoc[®] MF 505 Formerly MEYCO MINEFILL 505

Polymer admixture for improving cementitious mining backfill mixes, particularly with high clay contents.

DESCRIPTION

MasterRoc MF 505 is a liquid admixture for making better, more uniform and more predictable higher quality cementitious backfill mixes.

RECOMMENDED FOR

MasterRoc MF 505 is recommended for use in:

- Paste fill
- High density fill
- Cemented aggregates and rockfill
- Uncemented fill with higher clay contents

FEATURES AND BENEFITS

MasterRoc MF 505 admixture aids in the production of backfill mixes with these special qualities.

- Greater pumpability with superior rheology Controlled setting time characteristics
- Reduced water content for a given consistency
- Can increase strength – compressive & flexural
- Greater economy in a mix designed for a given strength, slump and air content
- Easier placement - economy in placement
- Increased durability
- Potential cost savings
- Effective with high clay content mixes
- Reduces pumping pressure and decrease shear viscosity of the fill

APPLICATION

MasterRoc MF 505 can be dispensed directly into the mix water or the entire wetted out mix. **MasterRoc MF 505** admixture should not be dispensed directly onto the dry binder or with other admixtures

QUANTITY TO USE

MasterRoc MF 505 is normally used at the rate of 300-400ml per wet tonne. However, dose rates outside the recommended may be used following trial mixes.

RATE OF HARDENING

The PSD, solid and cement content along with temperature of the 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 505**, 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 505** develops higher early and ultimate strengths, when compared to a plain mix.

PACKAGING

MasterRoc MF 505 is supplied in 205 litre sealed drums and 1000 litre IBC delivery.

For additional information on **MasterRoc MF 505** and its use in developing a mine backfill mix with special performance characteristics, contact your local Master Builders Solutions Technical Sales Representative.

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MID#MasterRoc[®] MF 505 - 04.2021

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