

MasterRoc MF 505C

Concentrated polymer admixture for improving cementitious mining backfill mixes, particularly with high clay contents

Material Description

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

Areas of Application

MasterRoc MF 505C is recommended for use in:

- Paste fill
- High density fill
- Cemented aggregates and rockfill
- Hydraulic fill
- Un-cemented fill with higher clay contents

Characteristics & Benefits

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

- Greater pumpability with superior rheology
- 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 shear viscosity of the fill

Application

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

Quantity to Use

MasterRoc MF 505C 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 particle size distribution, 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 505C, 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 505C develops higher early and ultimate strengths, when compared to a plain mix.

Packaging

MasterRoc MF 505C is available in 1200kg pallecons.

Storage & Shelf Life

Keep container tightly closed and in a cool place.

MasterRoc MF 505C has a minimum shelf life of 12 months.

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.



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Disclaimer

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MB Solutions Australia Pty Ltd

ABN 69 634 934 419
 11 Stanton Road
 Seven Hills NSW 2147

Freecall: 1300 227 300

www.master-builders-solutions.com/en-au

MB Solutions New Zealand Ltd

45C William Pickering Drive
 Albany, Auckland
 New Zealand

Phone: +64 9 414 7233

Emergency Advice:

1300 954 583 within Australia (24hr)
 0800 001 607 within New Zealand

