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# MasterRoc<sup>®</sup> MF 509

(MEYCO Minefill 509)

**Hybrid polymer admixture for improving cementitious mining backfill mixes.**

## Description

MasterRoc MF 509 is a liquid admixture for making better, more uniform and more predictable higher quality cementitious backfill mixes.

## Recommended for

- Paste fill
- Hydraulic fill
- High density fill
- Cemented aggregates and
- Cemented rockfill

## Features and benefits

MasterRoc MF 509 admixture aids in the production of backfill mixes with these special qualities.:

- Greater pumpability with superior rheology
- Extended workability retention
- 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 and binder reduction
- Reduces pumping pressure and shear viscosity of the fill

## Packaging

MasterRoc MF 509 is supplied in 210 l drums, 1000kg containers and in bulk delivery. For additional information on MasterRoc MF 509 and its use in developing a mine backfill mix with special performance characteristics, contact your local BASF Technical Sales Representative.

## Application

MasterRoc MF 509 can be dispensed directly into the mix water or the entire wetted out mix. MasterRoc MF 509 admixture should not be dispensed directly onto the dry binder or with other admixtures.

## Quantity to use

MasterRoc MF 509 is normally used at the rate of 300-800ml 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 509, 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 **MEYCO Minefill 509** can develop higher early and ultimate strengths, when compared to a plain mix.

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## Technical characteristics

Shape	Liquid
Color	Brown
Density (at 20°C)	1,08 + 0.01 kg/l
pH	4+-1
Viscosity (at 20°C)	128 +-30 mPa·s
Water solubility	full
Chlorides content	<0.01%

### Dosage rate

Standard dosage rate of MasterRoc MF 509 is 300-800 ml per 1 ton of backfill mixes. Depends on local terms and application this dosage can be changed. Please contact us for recommendations.

MasterRoc MF 509 не содержит опасных веществ, требующих специального обозначения.

Please see Safety data list in order to get more information regarding Safety instructions.

### Storage conditions

MasterRoc MF 509 must be stored at original packaging at temperature from +5°C till +30°C. Shelf-life of product in unopened packaging is 12 months. If the product were frozen please contact us for recommendations.

The information in this Technical data sheet is based on our existing experience. Because of many facts that can influence to results this information doesn't mean a legal responsibility. Please contact us for any additional information and recommendations.

The information given here is true, represents our best knowledge and is based not only on laboratory work but also on field experience. However, because of numerous factors affecting results, we offer this information without guarantee and no patent liability is assumed. For additional information or questions, please contact your local representative.

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