MasterRoc® MF 907

High performance plasticizing and water-reducing admixture for cementitious mine backfill

Material Description

MasterRoc MF 907 admixture is a liquid, polymer-based admixture used to enhance backfill properties.

Areas of Application

MasterRoc MF 907 is recommended for use in:
- Cemented paste fill.
- Cemented high density hydraulic fill
- Cemented rock fill.
- Cemented aggregate fill.

Characteristics and Benefits

- Reduces the water content of backfill materials leading to higher in-situ strengths
- Improves slump/yield stress and flow properties
- Mix optimization and/or cost savings by binder reduction (cement/slag cement/fly ash)
- Increases in-place strength at all ages
- Normal setting time and improved rate of hardening
- Reduces pumping and distribution pressures
- Enhances flowability (rheological properties)
- in most types of backfills, requiring less water.
- Reduces permeability and shrinkage in hardened fill
- Potentially increases backfill plant production rates through fast wetting effect and high efficiency of mixing as well as higher flow rates
- Potentially reduces cycle time and increases production.

Packaging

MasterRoc MF 907 is available in 1000 liter IBC, or by bulk delivery.

Technical Data

Main effect	High performance superplasticizer and rheology enhancer
Secondary effect	Faster setting if admixture is overdosed possible
State and appearance	Liquid, aqueous solution, yellowish to brownish
Density (20° C):	1,13 ± 0,02 g/cm3
pH (20° C):	3-6
Chloride content:	≤ 0,1%

The technical data presented are the result of statistical results and do not represent guaranteed minimums.

Application Procedure

MasterRoc MF 907 can be dispensed directly into the water or the entire wetted out mix. MasterRoc MF 907 admixture should not be dispensed directly onto the dry binder or with other admixtures.

Dosage

The dosage range for MasterRoc MF 907 admixture may be affected by the total cementitious materials content of the mixture and by the particle size distribution of the backfill material.
The normal dosage range of the admixture is 200 - 800 ml/ton of total backfill (wet ton). However, dose rates outside of the recommended range may be used following trial mixes.

Compatibility

When used in conjunction with other admixtures, MasterRoc MF 907 must be dispensed separately into the mix. The admixture is not typically chemically reactive with most backfill materials. Testing is recommended prior to use.
Do not use MasterRoc MF 907 admixture with admixtures containing beta-naphthalene-sulfonate. Erratic behavior in slump, slump flow and pumpability may be experienced.
MasterRoc MF 907 can be used in combination with any other additive MBS. When used in combination with other admixtures must be added each separately into the mixture of backfill.
For recommendations on the proper evaluation of MasterRoc MF 907 admixture in specific backfill applications, please contact your local Master Builders Solutions Technical Sales Representative

Storage

Keep away from excessive heat and direct sunlight. Store protected against freezing. The recommended storage temperature range is 5-40°C.

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If MasterRoc MF 907 admixture freezes, thaw carefully at temperatures above 2°C (do not overheat the admixture to the temperatures above 40°C!) and completely homogenize the product by mild agitation prior to use, because after thawing temporary phase separation in the product may occur. For agitation of MasterRoc MF 907 admixture mixing by IBC mixer, tank mixer or pressurized air circulation is appropriate. MasterRoc MF 907 has a minimum shelf life of 12 months if properly stored. Please contact your local Master Builders Solutions Technical Sales Representative regarding suitability for use and dosage recommendations if shelf life of MasterRoc MF 907 admixture has been exceeded.

Precautions

For the full health and safety hazard information and how to safely handle and use this product, please make sure that you obtain a copy of the Master Builders Solutions Safety Data Sheet (SDS).

Disclaimer

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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