

MasterRoc[®] MF 906

Hybrid polymer admixture for improving cementitious mining backfill mixes with high performance in rheology enhancing and plasticizing, water-reducing

Material Description

MasterRoc MF 906 is a high-performance liquid additive to improve the performance of cementitious backfill mixes and optimizing improving backfill operations. Product provides unique features in rheology, making these operations more uniform and controlled, reducing the friction losses, amount of water for the required consistency, improving UCS, thus providing significant economic savings.

Areas of Application

MasterRoc MF 906 is recommended for use in:

- Cemented paste fill.
- Cemented high density hydraulic fill
- Cemented rock fill.
- Cemented aggregate fill.
- Composite aggregate paste fill.

Characteristics and Benefits

- Significantly reduce friction losses in the pipes
- Reduces pumping and distribution pressures
- Improve rheological stability of the fill with flow retention
- Reduces the water content of back fill materials leading to higher in-situ strength
- Mix optimization for 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 (higher UCS)
- Reduces permeability and shrinkage in hardened fill
- Increase backfill plant production rates through quick wetting effect and high efficiency of the mixing as well as higher flow rates
- Reduces cycle time and increases production.

Packaging

MasterRoc MF 906 is available in 1000-liter IBC, or by bulk delivery.

Technical Data

Form	Liquid
Color	Colorless yellowish to brownish
Density (at +20°C)	1.04 +/- 0.02 g/cm ³
pH	8.5 +/- 1
Chloride content	< 0.1%

Application Procedure

Can be dispensed directly into the water or the entire wetted out mix (total backfill). MasterRoc MF 906 admixture should not be dispensed directly onto the dry binder or with other admixtures. Our recommendation is to be added in the paste mixer.

Dosage

The dosage range for MasterRoc MF 906 admixture is specified by total backfill (total wet fill) but it may be affected by the total cementitious materials content of the mixture and by the particle size distribution of the back-fill material. The normal dosage range of the admixture is 200-1000 ml/t of total backfill (wet ton). However, dose rates outside the recommended may be used following trial mixes.

For unspecified uses in this datasheet, please contact Master Builders Solutions.

Compatibility

MasterRoc MF 906 can be used in combination with other admixtures from Master Builders Solutions. When used in combination with other admixtures, must be dosed separately into the backfill. Prior to utilization, it is advised to perform laboratorial testing.

Do not use MasterRoc MF 906 admixture with admixtures containing beta-naphthalene-sulfonate. Erratic behavior in slump, slump flow and pumpability may be experienced.

Storage

Keep away from excessive heat and direct sunlight (in the permanent shade), and against freezing. The minimum recommended storage temperature is 5°C. If MasterRoc MF



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906 admixture freezes, thaw at temperatures above 2°C and completely reconstitute by mild agitation. Do not use pressurized air for agitation, only mixing with mechanical stirrer is recommended.

Before using at Industrial Scale, it is advised to perform testing. MasterRoc MF 906 has a minimum shelf life of 12 months when 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 906 admixture has been exceeded.

during the manipulation of the admixture. In case of direct contact with the eyes or skin, wash immediately with running water and contact a doctor.

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).

Precautions

MasterRoc MF 906 in direct contact with skin or eyes should be avoided. Safety glasses and rubber gloves must be used

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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