

MasterRoc[®] MF 501

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

Description

MasterRoc MF 501 admixture is a liquid, water-reducing admixture used to enhance the properties of mine backfill.

Applications

Recommended for use in:

- Paste fill
- High-density fill
- Cemented rock fill
- Hydraulic fill

Features

- Reduced water content
- Improved slump and flow characteristics
- Normal setting time and rate of hardening
- Reduces pumping and distribution pressures

Benefits

- Backfill optimization and/or cost savings by binder reduction (cement/slag cement/fly ash)
- Enhances workability (rheological properties) in all types of backfills, requiring less water
- Higher in-situ strengths at all ages
- Reduces segregation of high-density slurries
- Reduces permeability and shrinkage in hardened fill
- Potentially reduces cycle time and increases production

Guidelines for Use

Dosage: The dosage range of MasterRoc MF 501 admixture may be affected by the total binder content of the mixture and by the particle size distribution of the backfill material. The normal dosage range of MasterRoc MF 501 admixture is 10-30 fl oz/ton (300-900 mL/tonne) of backfill.

Mixing: MasterRoc MF 501 admixture can be dispensed directly into the water or the entire wetted out mix. MasterRoc MF 501 admixture should not be dispensed directly on to the dry binder or with other admixtures.

Product Notes

Corrosivity: Non-Chloride, Non-Corrosive: MasterRoc MF 501 admixture does not contain intentionally added calcium chloride or chloride-based ingredients.

Compatibility: When used in conjunction with other admixtures, each admixture 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 501 admixture with admixtures containing beta-naphthalene-sulfonate. Erratic behaviors in slump, slump flow and pumpability may be experienced.

For directions on the proper evaluation of MasterRoc MF 501 admixture in specific backfill applications, contact your local sales representative.

Storage and Handling

Storage Temperature: The minimum recommended storage temperature is 40 °F (5 °C). If MasterRoc MF 501 admixture freezes, thaw at temperatures above 35 °F (2 °C) and completely reconstitute by mild mechanical agitation. Do not use pressurized air for agitation.

Shelf Life: MasterRoc MF 501 admixture has a minimum shelf life of 12 months. Depending on storage conditions, the shelf life may be greater than stated. Please contact your local sales representative regarding suitability for use and dosage recommendations if the shelf life of MasterRoc MF 501 admixture has been exceeded.

Packaging

MasterRoc MF 501 admixture is supplied in 208 L (55 gal) drums, 1040 L (275 gal) totes or by bulk delivery.

Related Documents

Safety Data Sheet: MasterRoc MF 501 admixture

Additional Information

For additional information on MasterRoc MF 501 admixture, contact your local sales representative.

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