

# MasterRoc<sup>®</sup> MF 101

## High-performance accelerating admixture for backfill mixtures

### Description

MasterRoc MF 101 ready-to-use, liquid admixture is designed to make more uniform and predictable quality backfill, while accelerating setting time and strength development.

### Applications

Recommended for use in:

- Cemented rock fill
- Paste fill
- Hydraulic fill

### Features

- Increased early and ultimate strengths
- Reduced water content required for a given workability
- Accelerated setting characteristics

### Benefits

- Improved workability
- Faster backfill set times
- Quicker mine re-entry for increased excavation rates
- Can be introduced at plant or discharge point
- Easy to disperse in backfill mixing plants

### Performance Characteristics

**Strength:** Concrete containing MasterRoc MF 101 admixture develops higher early and higher ultimate strengths than plain backfill.

### Guidelines for Use

**Dosage:** This admixture is used within the range of 16-64 fl oz/cwt (1-4 L/100 kg) of cement for most backfill mixtures. Because of variations in backfill types, dosage rates other than the recommended amounts may be required. In such cases, contact your local sales representative.

As the dosage of MasterRoc MF 101 admixture increases up to 64 fl oz/cwt (4 L/100 kg) of cement, acceleration of setting time usually continues to increase. The larger dosage also increases early and ultimate strengths.

### Product Notes

**Corrosivity:** This product contains intentionally-added calcium chloride. The admixture, due to chlorides originating from all the ingredients used in its manufacture, contributes less than 0.0210% chloride ions by mass of the cement when used at the rate of 1 fl oz/cwt (65 mL/100 kg) of cement.

**Compatibility:** MasterRoc MF 101 admixture may be used in combination with any Master Builders Solutions admixture. When used in conjunction with other admixtures, each admixture must be dispensed separately into the mixture.

## Storage and Handling

**Storage Temperature:** MasterRoc MF 101 admixture should be stored above freezing temperatures. If MasterRoc MF 101 admixture freezes, thaw at 35 °F (2 °C) or above and completely reconstitute by mild mechanical agitation. **Do not use pressurized air for agitation.**

**Shelf Life:** MasterRoc MF 101 admixture has a minimum shelf life of 18 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 101 admixture has been exceeded.

## Packaging

MasterRoc MF 101 admixture is supplied in 55 gal (208 L) drums, 275 gal (1040 L) totes and by bulk delivery.

## Related Documents

Safety Data Sheets: MasterRoc MF 101 admixture

## Additional Information

For additional information on MasterRoc MF 101 admixture or its use in developing a backfill with special performance characteristics, contact your local sales representative.

*Master Builders Solutions creates technologies for the construction industry inspiring people to build better. We are active in ~40 countries and operate 35 production sites with over 1,600 employees. We develop, produce, and market high-quality chemical admixtures, as well as adjacent core technologies, to master the challenges of today and support a decarbonized future. Our people are pivotal and pair leading technologies and a strong brand heritage to surpass our customers' expectations and drive continuous value creation.*

## Limited Warranty Notice

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