MasterRoc® FLC 100
Powdered Additive for Cementitious Grouts

Description
MasterRoc FLC 100 is a special multicomponent rheoplastic additive used in cement-based grouts to reduce the mixing water requirements and produce a flowable, pumpable, thixotropic, non-shrink, non-segregating, high-strength grout with any type of portland cement. MasterRoc FLC 100 additive is used in grouts for rock and ground support and stabilization, as well as grout used for the protection of post-tensioned cables in prestressed concrete and for full encapsulation of tunnel and mine rock bolts and anchors.

Applications
Recommended for use in:
- Neat cement or cement-sand grouts for anchoring applications in rock and concrete
- Grouts used in tunneling, dams, mining or other geotechnical operations
- Preplaced aggregate grouting
- Contact and consolidation grouting

Features
When used in the recommended applications, MasterRoc FLC 100 additive produces a thixotropic grout with the following unique properties:
- Low water-cement ratio
- Bleedwater control
- High-early strength\(^1\)
- Long potlife (open time)\(^1\)
- High ultimate strength\(^1\)

\(^1\) These parameters are dependent upon the type of cement used in the grout.

Benefits
- Pumps and places more easily
- Shrinkage-compensating
- Dense and compact, ensuring maximum protection of steel members against corrosion caused by aggressive agents

Performance Characteristics

Dosage: MasterRoc FLC 100 additive is formulated to be used at a dosage in the range of 2.5-6.0 lb/cwt (2.5-6.0 kg/100 kg) of cementitious material. Dosages may vary according to application and desired concrete properties. For dosages outside the recommended range, contact your local sales representative.

Mixing: MasterRoc FLC 100 additive should be uniformly distributed in the mixing water when possible before the other solids are added.

Product Notes
MasterRoc FLC 100 additive is not recommended for precision grouting of machinery, column bases, etc.
Storage and Handling

**Storage Temperature:** MasterRoc FLC 100 additive should be stored in unopened packaging in clean, sheltered, dry conditions between 50 and 90 °F (10 and 32 °C).

**Shelf Life:** MasterRoc FLC 100 additive has a shelf life of 12 months when properly stored. Depending on storage conditions, the shelf life may be greater than stated. Please contact your local sales representative regarding suitability for use if the shelf life of MasterRoc FLC 100 additive has been exceeded.

Packaging

MasterRoc FLC 100 additive is supplied as a dry powder in 25 lb (11.4 kg) moisture resistant bags.

Related Documents

Safety Data Sheets: MasterRoc FLC 100 additive.

Additional Information

For additional information on MasterRoc FLC 100 additive, contact your local sales representative.

The Admixture Systems business of BASF’s Construction Chemicals division is the leading provider of solutions that improve placement, pumping, finishing, appearance and performance characteristics of specialty concrete used in the ready-mixed, precast, manufactured concrete products, underground construction and paving markets. For over 100 years we have offered reliable products and innovative technologies, and through the Master Builders Solutions brand, we are connected globally with experts from many fields to provide sustainable solutions for the construction industry.

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