

31 33 00	Rock Stabilization
31 51 00	Anchor Tiebacks
31 68 00	Foundation Anchors

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 strength¹
- Long potlife (open time)¹
- High ultimate strength¹

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 and 1500 lb (680 kg) moisture-resistant bulk 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.

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.

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