

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.

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, a brand of MBCC Group, is a global leader of innovative chemistry systems and formulations for construction, maintenance, repair and restoration of structures. The Admixture Systems business provides advanced products, solutions and expertise that improve durability, water resistance, energy efficiency, safety, sustainability and aesthetics of concrete structures, above and below ground, helping customers to achieve reduced operating costs, improved efficiency and enhanced finished products.

Utilizing worldwide resources, the Master Builders Solutions community of experts are passionate about providing solutions to challenges within all stages of construction, as well as the life cycle of a structure. At Master Builders Solutions we create sustainable solutions for construction around the globe.

Limited Warranty Notice

Master Builders Solutions Admixtures US, LLC ("Master Builders Solutions") warrants this product to be free from manufacturing defects and to meet the technical properties on the current Technical Data Guide, if used as directed within shelf life. Satisfactory results depend not only on quality products but also upon many factors beyond our control. MASTER BUILDERS SOLUTIONS MAKES NO OTHER WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO ITS PRODUCTS. The sole and exclusive remedy of Purchaser for any claim concerning this product, including but not limited to, claims alleging breach of warranty, negligence, strict liability or otherwise, is shipment to purchaser of product equal to the amount of product that fails to meet this warranty or refund of the original purchase price of product that fails to meet this warranty, at the sole option of Master Builders Solutions. Any claims concerning this product must be received in writing within one (1) year from the date of shipment and any claims not presented within that period are waived by Purchaser. MASTER BUILDERS SOLUTIONS WILL NOT BE RESPONSIBLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL (INCLUDING LOST PROFITS) OR PUNITIVE DAMAGES OF ANY KIND.

Purchaser must determine the suitability of the products for the intended use and assumes all risks and liabilities in connection therewith. This information and all further technical advice are based on Master Builders Solutions' present knowledge and experience. However, Master Builders Solutions assumes no liability for providing such information and advice including the extent to which such information and advice may relate to existing third party intellectual property rights, especially patent rights, nor shall any legal relationship be created by or arise from the provision of such information and advice. Master Builders Solutions reserves the right to make any changes according to technological progress or further developments. The Purchaser of the Product(s) must test the product(s) for suitability for the intended application and purpose before proceeding with a full application of the product(s). Performance of the product described herein should be verified by testing and carried out by qualified experts.