

MasterRoc MG 03

High strength flowable grout for long strand cables and strata binding

MATERIAL DESCRIPTION

MasterRoc MG 03 is a shrinkage compensated, highly flowable precision grout for placement of cable bolts and strata binding. The product exhibits high early and ultimate strengths and can be used in underground mine and civil tunnel applications.

RECOMMENDED USES

MasterRoc MG 03 is particularly suitable as a grout used for the encapsulation of roof bolts and cable anchors where the “bottom up” grouting method is preferred.

FEATURES AND BENEFITS

- High ultimate strengths ensure the permanence and safety of critical installations.
- High flow characteristics enables the full encapsulation of bolts through narrow grout tubes and penetration of fine fissures.
- Extended working time enabling easier cleanup of pumps and hoses.
- Shrinkage compensated for greater bond strength to surrounding borehole & strata.
- High bond to steel.

PERFORMANCE DATA

Grout strength development is dependent on the amount of mixing water, ambient temperature, age, and curing. Typical rates of strength development of 20kg of **MasterRoc MG 03** grout with 6.0 litres of water are shown below:

Compressive Strength – Typical results (AS1478.2 Appendix A. restrained 50mm cubes at 23°C)

1 Day	7 Days	28 Days
35 MPa	65 MPa	90 MPa

MIXING EQUIPMENT

For best results mix using a high mechanical shear or paddle mixer. Any grout mixer/pump must have accurate water dosage facilities.

MIXING

MasterRoc MG 03 is supplied ready to use, requiring only the addition of potable water. Do not use hardened or lumpy grout caused by torn or water damaged bags.

Actual amount of water will depend on the desired consistency of the grout required and the grout pump available. As a guide, use 5.5 - 8 litres per 20kg bag.

Do not use excess water. Discard any grout that has been left more than 60 minutes. Do not retemper.

PLACEMENT

Master Builders Solutions provide a range of support services which includes operator training and underground audits. Each service package is developed to suit individual site requirements.

It is strongly recommended that a review with fully trained and qualified Master Builders Solutions personnel is conducted prior to placement of **MasterRoc MG 03**.

CLEANING

Systematic cleaning of the pump, grout and lines with clean water is essential. This should be done immediately after completion of grouting operations. If delays occur greater than 1 hour, the batched grout should be discarded, and the unit cleaned out.

ESTIMATING DATA

20kg of **MasterRoc MG 03** grout with 6.5 litres of water will yield approximately 13.0 litres (0.013m³).

PACKAGING

MasterRoc MG 03 is packaged in 20kg moisture resistant paper bags.

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STORAGE AND SHELF LIFE

Pallets should be stored in a dry place. **MasterRoc MG 03** has a shelf life of 12 months.

PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, make sure that you obtain a copy of the Master Builders Solutions Safety Data Sheet (SDS).

NOTE

Technical support, where provided, does not constitute supervisory responsibility. For additional information contact your local MB Construction Chemicals Solutions South Africa (Pty) Ltd representative. MB Construction Chemicals Solutions South Africa (Pty) Ltd shall not be liable for technical advice provided.

MB Construction Chemicals Solutions South Africa (Pty) Ltd reserves the right to have the true cause of any difficulty determined by accepted test methods. Undertaking such tests is not, and shall not be deemed to be, an admission of liability or an assumption of any risk, loss, damage or liability.

QUALITY AND RESPONSIBLE CARE

All products originating from MB Construction Chemicals Solutions South Africa (Pty) Ltd are manufactured under a management system independently certified to conform to the requirements of the quality standards ISO 9001, environmental and occupational health and safety standards.

* Properties listed are based on laboratory controlled tests.

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