

MasterRoc MG 100

Thixotropic grout additive to improve corrosion protection to rock & cable bolts

MATERIAL DESCRIPTION

MasterRoc MG 100 is a product in powder form. One 15kg bag is added to 80kg of cement to produce a thixotropic, pumpable, non-shrink, impermeable grout providing high strength and high bond to steel. The most important property **MasterRoc MG 100** provides to grout is the protection of cables and steel bolts against corrosion.

FEATURES AND BENEFITS

- High strength.
- High bond to steel.
- Grout thixotropy (reduces grout loss in ground faults/fissures.
- Shrinkage compensated.
- Impermeability.
- Greater than one hour working time.
- High mix water retention.

TECHNICAL DATA

CHARACTERISTICS	33 ltrs*	36 ltrs*
Water / Cementitious ratio	0.35	0.38
Bleed	Nil	<0.25%
Compressive Strength 24 hrs	18 MPa	19 MPa
7 days	52 MPa	48 MPa
28 days	77 MPa	67 MPa
1 year	89 MPa	Not tested

* Qty of water per batch of 80kg of cement + 15kg of MasterRoc MG 100

APPLICATION

Introduce 30 to 36 litres of water to the mixer. Start the mixer and add 15kg of **MasterRoc MG 100** followed by 80kg of cement. Mix for 3 minutes or until a homogeneous lump free mixture is obtained.

The grout mixture will remain workable for at least one hour.

NOTE

The temperature of walls and spaces where the grout is to be pumped should be between 5°- 40°C for optimum results.

MasterRoc MG 100 is a chloride free product, however chlorides can be introduced into a grout via mixing water or brand of cement. It is recommended to use water containing less than 40mg/l of chloride and chloride free cements. Though all Portland, pozzolanic or slag cements may be used, GP cement is recommended in cold weather.

ESTIMATING DATA

Approximately 70 litres of thixotropic grout are obtained by mixing 33 litres of water, 80kg of cement and 15kg of **MasterRoc MG 100**.

EQUIPMENT

- Batch type paddle mixers (e.g. GP 2000).
- Some colloidal mixers (high water content only).

PACKAGING

MasterRoc MG 100 is supplied in 15kg paper bags, 340kg & 680kg bulk bags.

STORAGE AND SHELF LIFE

Containers should be stored tightly sealed in a dry place. **MasterRoc MG 100** 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, please make sure that you obtain a copy of the Master Builders Solutions Safety Data Sheet (SDS).

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NOTE

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* Properties listed are based on laboratory controlled tests.

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