

MasterRoc RBA 387

Highly reactive, thixotropic polyurea silicate injection resin for rock bolt installation

MATERIAL DESCRIPTION

MasterRoc RBA 387 is a rapid reacting two component polyurea silicate injection resin specifically designed for rock bolt installations. Due to its unique thixotropic behaviour it offers high flexibility which allows for overhead applications without additional sealing.

FIELDS OF APPLICATIONS

- · Resin-into-bolt rock bolting at all angles.
- · Bolt-into-resin rock bolting at all angles.

FEATURES AND BENEFITS

- Secure and precise injection due to its thixotropic properties.
- Flexibility in application due to its unique thixotropic properties and long-distance pumping capacity.
- Increased reliability due to its full-size grouting.
- Mixes easily even in low temperatures > 5°C.
- · High structural strength combined with flexibility.
- Injected material shows good adhesion to damp and low friction substrates.
- Neither expands its volume with water nor absorbs water.
- Keep people safe during bolting due to its fast curing and strength development.

PACKAGING

MasterRoc RBA 387 is supplied in:

- 25 I cans, 200 I drums and 1000 I IBC
- Special packaging on request

TECHNICAL DATA

Physical properties:

	Color	Viscosity,	Density
		mPa.s	g/cm³
Part A	Colorless	490	1.38
Part B	Dark Brown	150	1.18

Note: Tested at 23°C, density tested at 20°C

Mixing Ratio: 1:1 by volume

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Reaction characteristics:

Testing Temperature	23°C	
Thixotropic Time	Immediately	
Setting Time	30s ± 5s	
Foam Expansion Factor	1	
Compressive Strength	> 35 MPa	
Pull-out strength	≥ 320 kN (600 mm)	
According to DIN 21521		

APPLICATION PROCEDURE

Part A and B are delivered ready for use. They are injected in the ration of 1:1 by volume, using a two component injection pump equipped with a static inline mixer nozzle, as shown in the following picture.



Example of a two component injection pump.

Please note: The curing time is dependent on the temperature of the product and ground. Please store both components prior to application at a temperature of at least +10°C.

To achieve a favourable mixing result during injection the addition of a static in-line mixer in connection with the mixing head is strongly recommended. The static mixer should at least consist of 16 cross mixing elements.

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EQUIPMENT

For short breaks in the injection procedure pump part A through the nozzle including the static in-line mixer. After the injection process pump an appropriate cleaning and maintenance agent or oil containing no water, through the pump and injection hoses until **MasterRoc RBA 387** is completely washed out. Store the pump and hoses with the cleaning agent inside and seal all openings.

STORAGE

MasterRoc RBA 387 has a shelf life of 12 months if stored in original, unopened packaging between +5 °C to +35°C. The storage area must be kept dry.

SAFETY PRECAUTIONS

The use of gloves, eye protection and safety clothes are recommended. Any physical contact (e.g. skin or eyes) with the product should be avoided. If contact with skin occurs, wash thoroughly using soap and water. In case of eye contact, rinse thoroughly with an eyebath filled with water and seek medical advice. The products are harmless.

Uncured products should not enter the local drainage system. Spillage must be collected using absorbent materials such as sawdust and/or sand and disposed of in accordance with local regulations.

For further information, please refer to the Material Safety Data Sheet or contact your local Master Builders Solutions representative.

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.

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* Properties listed are based on laboratory controlled tests.

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