

MasterRoc RBA 380

Highly reactive, thixotropic polyurea silicate anchoring resin for rock bolting

MATERIAL DESCRIPTION

MasterRoc RBA 380 is a fast reacting, two component, instantly-thickening, solvent free polyurea silicate anchoring resin specifically designed for rock bolting. Its thixotropic feature facilitates overhead applications without additional sealing.

APPLICATIONS

- · Resin-into-bolt rock bolting at all angles.
- · Bolt-into-resin rock bolting at all angles.
- · For the use with steel and glass fiber bolts.

FEATURES

- · Thixotropic.
- · Fast curing and rapid strength development.
- · Long distance pumping capability.
- Easy mixing even at low temperatures (> 5 °C).
- High structural strength.
- Excellent adhesion to damp and low friction substrates.
- Does not absorb water or expand when comes in contact with water.

BENEFITS

- · Secure and precise injection
- · Flexibility in applications
- · Reliable rock bolting

PHYSICAL CHARACTERISTICS

Physical properties:

	Color	Viscosity,	Density
		mPa.s	g/cm³
Part A	Colorless	490	1.39
Part B	Dark Brown	150	1.18

Note: Tested at 23°C Mixing Ratio: 1:1 by volume

Reaction characteristics:

Testing Temperature	23°C	
Thixotropic Time	Immediately	
Setting Time	3 min ± 20s	
Foam Expansion Factor	1	
Compressive Strength	> 35 MPa	
Pull-out Strength	250kN (600mm)	

GUIDELINES FOR USE

Dosage and Application Procedure: The Part A and Part B of **MasterRoc RBA 380** resin are delivered ready to use. They should be injected in the ratio of 1:1 by volume, using a two component injection pump equipped with a static in-line mixer nozzle, as shown in the following picture.



Example of a two component injection pump.

The curing time is dependent on the temperature of the product and of the ground. Store both components at a temperature above 5 °C prior to application.

To achieve a favourable mixing result during injection, the addition of a static in-line mixer in conjunction with the mixing head is strongly recommended. The length of the static mixer should be approximately 300 mm.

Equipment: For short breaks in the injection process, pump **MasterRoc RBA 380** resin Part A through the nozzle including the static in-line mixer.

After the injection process, pump an appropriate cleaning and maintenance agent or oil that does not contain any water, through the pump and injection hoses until **MasterRoc RBA 380** resin is completely flushed out. Store the pump and hoses with the cleaning agent inside and seal all openings.

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STORAGE AND HANDLING

Storage temperature and shelf life:

If stored in dry conditions, in unopened and tightly closed original containers, and within a temperature range of 5 °C to 35 °C, the components of **MasterRoc RBA 380** resin have a shelf life of 12 months.

Caution:

Part A of **MasterRoc RBA 380** resin freezes below a temperature of 0 °C and cannot be reconstituted.

Safety:

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 water and seek immediate medical advice.

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

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

PACKAGING

MasterRoc RBA 380 product is available in the following packages:

- Part A: 25 L jerricans and 209 L drums
- Part B: 24 L jerrycans and 200 L drums

LIMITED WARANTEE NOTICE

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NOTE

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* Properties listed are based on laboratory controlled

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