

MasterRoc RBA 380

Highly reactive, fire resistant thixotropic polyurea silicate injection resin for rock bolting

Material Description

MasterRoc RBA 380 is a fast reacting two component, instantly thickening solvent-free polyurea silicate injection resin specifically designed for rock bolting. Due to its thixotropic behaviour overhead applications are possible without additional sealing

Areas of Application

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

Characteristics & 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

Technical Data

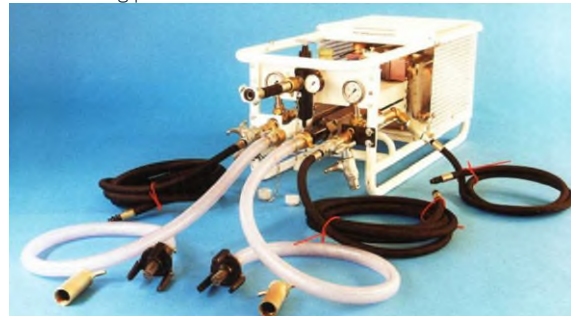
	Colour	Viscosity mPa.s	Density kg/m ³
Part A	Colourless	450	1.45
Part B	Dark Brown	115	1.16

Reaction Characteristics:

Testing temperature	23°C
Thixotropic time	Immediately
Setting time	180s ± 20s
Foam expansion factor	1
Compressive strength	> 35 MPa
Pull-out strength	≥ 250 kN (600mm)

Application Directions

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 in-line mixer nozzle, as shown in the following picture.



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 +5°C.

To achieve a favorable mixing result during injection the addition of a static in-line mixer in connection with the mixing head is strongly recommended. The length of the static mixer should be approximately 32 cm.

Equipment

For short breaks in injection, pump only Component A through the mixing head and supply hose. After injection and prior to storage of the equipment, pump water through the A lines and clean engine oil through the pump and injection lines of B-component. For cleaning, a flushing agent for polyurethane resin should be used. Afterwards fill the complete system with engine oil.

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Packaging

MasterRoc RBA 380 is available in the following packaging:

Part A	1310kg IBC
Part B	1110kg IBC

Storage & Shelf Life

MasterRoc RBA380 has a shelf life of 24 months if stored in original, unopened packaging between +5 °C to +35°C. The storage area must be kept dry. Part A freezes below 0°C.

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 Safety Data Sheet (SD) from our office or website.

Disclaimer

MasterRoc-RBA380-ANZ-V4-0723

STATEMENT OF RESPONSIBILITY

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