

MasterRoc RBA 380

Organo-mineral injection, two-component, thixotropic and fire-resistant resin; highly reactive, suitable for anchoring and nailing.

Material description

MasterRoc RBA 380 is a two-component, thixotropic, solvent free, highly reactive, fire-resistant, organo-mineral injection resin specifically designed for anchoring and nailing. Its thixotropic properties allow for applications on caps without wellhead sealing (caulking).

Fields of applications

- Nailing carried out with resin injection through the self drilling bolts with any inclination angle, no caulking.
- Nailing carried out by inserting bolts into the hole injected with resin at any inclination angle.
- Anchoring and nailing made by injecting the resin through special injection tubes.
- Can be used with steel and fibreglass bolts and strands.

Features and benefits

- Safe and accurate injection thanks to thixotropic properties.
- Different possible applications thanks to thixotropic properties and pumpability over long distances.
- Excellent adhesion to concrete: 5.0 Mpa after 30 minutes.
- It mixes easily at temperatures $> 5^{\circ}\text{C}$.
- Compressive strength $> 30 \text{ MPa}$.
- High mechanical resistance combined with high flexibility.
- Thixotropic behaviour immediately after mixing.
- The injected material shows excellent adhesion even on damp surfaces and on supports with low friction.
- MasterRoc RBA 380 does not expand in volume in the presence or absence of water, it does not absorb water.
- MasterRoc RBA 380 is a very fast-reacting product, suitable for applications requiring structural resistance and flexibility.
- Fire-resistant.

Identification and application data		
Component A	Colour	Colourless
	Viscosity (mPa·s, 25°C)	450
	Density (kg/m ³ , 23°C)	1460
	Mixing ratio	A: B = 1:1 by volume
Component B	Colour	Dark brown
	Viscosity (mPa·s, 25°C)	115
	Density (kg/m ³ , 23°C)	1160
	Mixing ratio	A: B = 1:1 by volume
Reaction features		
Testing temperature (°C)	23	
Thixotropic properties	immediate	
Setting time (s)	180 ± 20	
Foam expansion factor	1	
Compressive strength (MPa)	> 35	
Pull-out resistance (kN)	> 250 (600 mm)	

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Packaging and storage

- **Component A:** 35 kg cans, 292 kg drums.
- **Component B:** 28 kg cans, 232 kg drums.

MasterRoc RBA 380 components have a shelf life of 12 months if stored in a dry environment, in their original well-closed containers, at a temperature between 5°C and 35°C. Comp. A freezes at temperatures below 0°C.

Application sheet

Application method

Components A and B must be injected with a volumetric proportion of 1:1 by using a double pumping component injection pump fitted with an in-line static mixer, as shown in the photo below.

Please note: the reaction time of the resin is highly dependent on the temperatures of the product, the rock and possibly the water in the ground. We recommend keeping the two components (A and B) at a temperature of approximately 15°C before application.

To mix the components as best as possible during injection, use an in-line static mixer combined with the injection gun. Before the injection stage, always check first that the static mixer used can generate the thixotropic effect of the resin.



Cleaning the injection pump

With three-piston pumps, like the one in the photo, in the event of short interruptions during work you can pump the MasterRoc MP 230 CLN cleaner by using the dedicated pumping element. Once the work is finished, wash the pumping elements and the pipes of the two components as well with the MasterRoc MP 230 CLN cleaner.

Warnings

MasterRoc products are for professional use. For more information, get in touch with your local Master Builders Solutions Italia Spa technician.

Safety instructions

For guidance on the correct and safe use, transport, storage and disposal of the product, please see the latest Safety Data Sheet (SDS).

Other services

For additional technical information, brochures, references, technical reports and technical assistance, please go to www.master-builders-solutions.com/it-it or get in touch at infomac@masterbuilders.com.

Scan the QR code to visit the product page and download the latest version of this data sheet and any additional documentation.



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Disclaimer

Since 16/12/1992, Master Builders Solutions Italia Spa has been operating under a Certified Quality System compliant with the UNI EN ISO 9001 Standard. Furthermore, the Environmental Management System is certified according to the UNI EN ISO 14001 Standard and the Safety Management System is certified according to the UNI ISO 45001 Standard.

For further information, please consult the local Technician of Master Builders Solutions. The technical advice on how to use our products, either written or verbally given, are based on the current state of our scientific and practical expertise, and does not imply the assumption of any guarantee and/or responsibility for the final results of works executed using our products.

Therefore, the customer is not exempted from the exclusive task and responsibility of verifying the suitability of our products for the intended use and purposes.

This version supersedes all the previous ones.

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