

MasterRoc[®] MP 358 SC

Formerly MEYCO MP 358 SC

Highly reactive, two component hydrophobic polyurethane injection resin for strata consolidation

Product description

MasterRoc MP 358 SC is a two component, solvent-free polyurethane injection resin specifically designed for rapid stabilization of strata where high compressive and bonding strength is needed.

Fields of application

- Consolidation of fractured rock in underground structures
- Consolidation of broken coal in development roadways and longwalls
- Sealing against gas and water

Features and benefits

- Fast reacting material applied where structural strength and flexibility is required.
- Reacts and expands in volume up to 3 times without water contact.
- Penetrates cracks wider than 0.14 mm.
- When in contact with water, the foam factor may increase to about 8.
- Low sensitivity to water.
- Almost no increase of reaction temperature on contact with water.

Packaging

Part A: 25 kg cans and 205 kg drums
Part B: 30 kg cans and 250 kg drums

Technical data

	Color	Viscosity mPa·s	Density kg/ m ³
Part A	Yellow	300	1.01
Part B	Dark brown	240	1.22

Tested at 23°C

Flash point: Part A & B separately: > 200°C

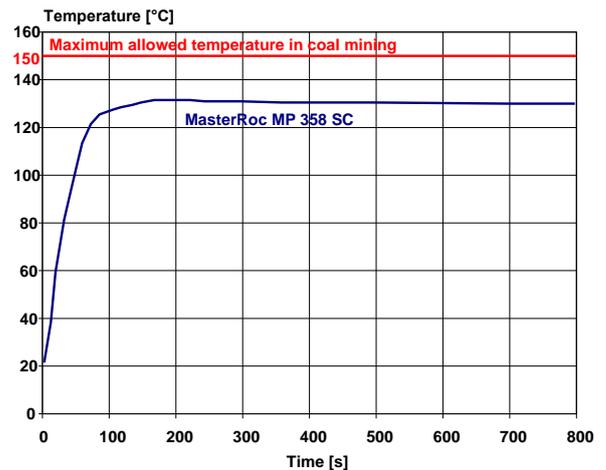
Mixing ratio Part A to Part B: 1 to 1 by volume

Reaction characteristics

Testing temp.	25°C
Start of foaming	45s ± 15s
End of foaming	70s ± 10s
Foam expansion factor	ca. 3
Flexural adhesive strength (24 h)	> 6 N/mm ²
Border time	<10 min

Border time: Time needed to reach 1 MPa adhesive strength in lab conditions

Reaction temperature



Application procedure

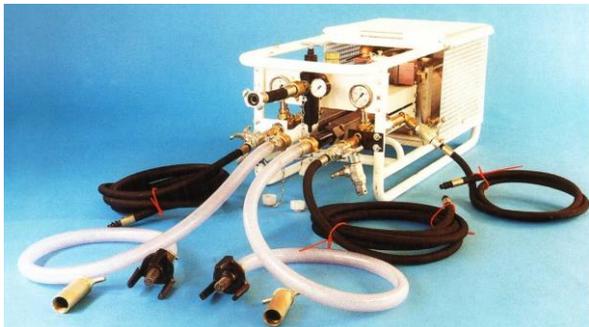
Part A and B are delivered ready-to-use. They are injected in the proportion of 1:1 by volume using a two component injection pump equipped with a static in-line mixer nozzle, as shown below:



We create chemistry

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Please note: The curing reaction time is significantly dependent on the temperature of the product and the ground. Please store both components prior to application at a minimum temperature of 15°C.

To achieve the best mixing of the components during injection, the inclusion of a static in-line mixer in connection with the mixing head is strongly advised. The length of the static mixer should be approximately 32 cm.

Cleaning of injection equipment

For short breaks in the injection procedure, pump Part A through the in-line static mixer nozzle. After finishing the injection, pump an appropriate agent or oil which does not contain water through the pump and injection lines.

Storage

If stored in dry conditions, in unopened, tightly closed original containers and within a temperature range of +5°C and +35°C, the components of MasterRoc MP 358 SC have a shelf life of 12 months.

Safety precautions

Refer to the Material Safety Data Sheet for safety measures:

MasterRoc MP 358 SC Part A

MasterRoc MP 358 Part B

Avoid contact with skin and eyes by using the required personal protective equipment, such as overalls, gloves and safety glasses. If contact with skin occurs, wash thoroughly using soap and water. If contact with eyes occurs, rinse thoroughly with an eyebath filled with water and seek medical advice. The product is harmless.

Uncured liquid materials should be prevented from entering local drainage systems and water courses. Spillage must be collected using absorbent materials such as sawdust and sand, and disposed of in accordance with local regulations.

The information given here is true, represents our best knowledge and is based not only on laboratory work but also on field experience. However, because of numerous factors affecting results, we offer this information without guarantee and no patent liability is assumed. For additional information or questions, please contact your local representative.

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