

MasterRoc[®] MP 358 SC

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

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.

TYPICAL APPLICATIONS

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

ADVANTAGES

- 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 0.14mm
- When in contact with water, the foam factor may increase to about 8
- Low sensitivity to water
- Almost no increase of reaction temperature in contact with water
- Good bonding on wet and damp surfaces

PACKAGING

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

TYPICAL PROPERTIES*

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

Tested at 23°C

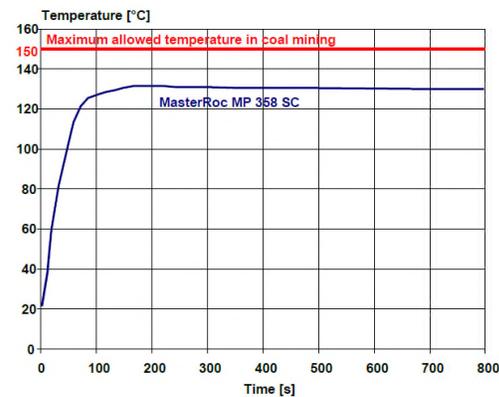
Flash point: Part A & B separately: >200°C
 Mixing ratio Part A to B: 1 to 1 by volume

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

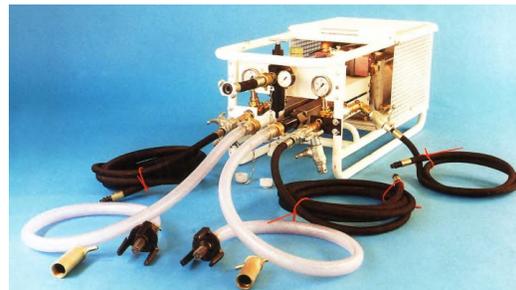
Border time: Time needed to reach 1 MPa adhesive strength in lab conditions

REACTION TEMPERATURE



APPLICATION GUIDELINES

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:



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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 an optimal mixing of the components during injection, the inclusion of a static in-line mixer in connection with the mixing head is strongly recommended. The length of the static mixer should be approximately 32cm.

CLEANING OF INJECTION EQUIPMENT

For short breaks in the injection procedure, pump Part A through the in-line static mixer nozzle. After the injection process pump an appropriate cleaning and maintenance agent (**MasterRoc MP 230 CLN**) or oil containing no water, through the pump and injection hoses until **MasterRoc MP 358 SC** is completely washed out. Store the pump and hoses with the cleaning agent inside and seal all openings.

STORAGE AND SHELF LIFE

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** has a shelf life of 24 months.

HEALTH AND SAFETY

Refer to the Material Safety Data Sheet for safety measures:

MasterRoc MP 358 SC Part A
MasterRoc MP 358 SC 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 products are harmless.

Uncured products 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.

* Properties listed are based on laboratory controlled tests.

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STATEMENT OF RESPONSIBILITY

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