

MasterRoc[®] MP 355

Highly reactive, two component polyurethane injection foam to stop high volume water ingress and for ground consolidation

DESCRIPTION

MasterRoc MP 355 is a two component, solvent-free polyurethane injection resin specifically designed for rapid water stopping and ground consolidation.

FIELDS OF APPLICATION

- Permanent stopping of high volume water ingress in underground structures
- Also suitable for cold water
- Ground consolidation

FEATURES AND BENEFITS

- On contact with water, the product forms a rigid foam.
- Without the presence of water, the product also reacts and forms a hard substance. This is a significant safety advantage, as the material never remains uncured.
- On contact with water the reaction is completed within a short period of time.
- Provides structural strength and rigidity.

PACKAGING

Part A: 25 kg cans and 200 kg drums

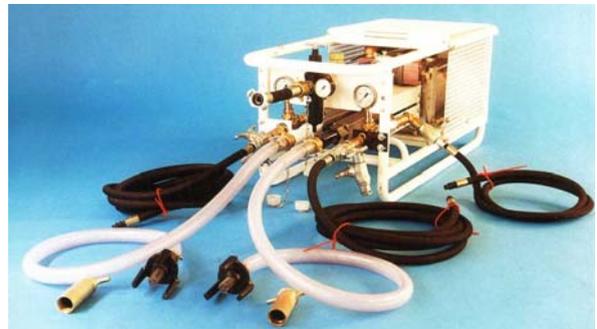
Part B: 30 kg cans and 240 kg drums

TECHNICAL DATA*

At 20°C	Color	Viscosity mPa.s	Density kg/l
Part A	Yellowish	320	1.00
Part B	Dark brown	240	1.23
Accelerator 10	Yellowish	500	1.00
Accelerator 15	Yellowish	1000	1.00
Accelerator 25	Yellowish	20	0.90

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.



Please note: The foaming reaction time is dependent on the temperature of the product, and the ground water.

MasterRoc MP 355's properties can be altered by the use of three different accelerators:

- **MasterRoc MP 355** Accelerator 10
- **MasterRoc MP 355** Accelerator 15
- **MasterRoc MP 355** Accelerator 25

For a high foaming factor (approximately 20-25) and a rapid reaction for water stopping: Add the Accelerator 10 to Part A by 0.5 - 1% dosage (by weight of Part A).

For a dense foam (factor 7-9) with high mechanical strength for ground consolidation: Add the Accelerator 15 to Part A by 0.5 - 1% dosage (by weight of Part A).

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Accelerator 25 combines the functions of Accelerator 10 and Accelerator 15. If a big amount of water is expected in soil or rock and a strong foam with a low expansion factor is needed, Accelerator 25 should be added to Part A by 0.1 - 0.5% dosage (by weight of Part A). If a particularly rapid reaction is required, one can additionally premix water to Part A, 2% by volume of Part A.

After the addition of accelerator (and water if added) to Part A, the can should be shaken vigorously to ensure even dispersion throughout the resin prior to injection works.

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.

Note: **MasterRoc MP 355** is not suitable for large volume void filling.

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 355** have a shelf life of 12 months.

SAFETY PRECAUTIONS

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 eyewash filled with boracic solution and seek medical advice. Refer to the Material Safety Data Sheet for safety measures. 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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