

MasterRoc® MP 355 (Formerly known as Meyco® MP 355 A3)

Highly Reactive, Two Component Polyurethane Injection Foam To Stop High Volume Water Ingress and For Ground Consolidation

DESCRIPTION OF PRODUCT

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.

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

TECHNICAL DATA

At 20°C	Color	Viscosity mPa.s	Density kg/lit
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

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).

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 pre-mix 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.

PACKAGING

Part A: 25 kg cans and 200 kg drums
 Part B: 30 kg cans and 240 kg drums

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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 eyebath 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.

DISCLAIMER

The technical information given in this publication is based on the present state of our best scientific and practical knowledge. **Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.** is only responsible for the quality of the product **Master Builders Solutions Yapı Kimyasalları Sanayi ve Ticaret Ltd. Şti.** is not responsible for results that may occur because the product is used other than advised and/or out of instructions regarding the place and the method of use. This technical form is valid only till a new version is implemented and nullifies the old ones.

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