

MasterRoc[®] MP 355 1K

One Component Polyurethane Injection Foam to Stop Small to Mid-Volume Water Ingress

Material Description

MasterRoc[®] MP 355 1K is a solvent free, one component polyurethane foam which reacts only in contact with humidity or water.

Areas of Application

- Stopping of small to mid-volume water ingress in underground structures
- Also suitable for filling of water bearing voids

Characteristics and Benefits

- Reacts in moist surroundings
- Good bonding to wet surfaces

Accelerator for MasterRoc[®] MP 355 1K

Color	Clear to Yellowish
Denisty (20°C)	0.98 g/cm ³
Viscosity (23°C)	320 mPa.s

Processing Method

1. Add the accelerator to **MasterRoc[®] MP 355 1K** (up to 10%, depending on the required reaction time), mix quickly and thoroughly.
2. Inject the mixture through a single component injection pump. The moisture / water in the ground will generate a foaming reaction. In the case of dry ground, flush the borehole with water before injecting.



Reaction Time

The reaction time depends on the ground and product temperature, as well as the accelerator dosage (see table below). Site trials should be performed in advance to establish the required reaction time.

Table 1:

**Reaction Times:
 (10% water and 10% accelerator)**

Initial temperature (°C)	5	10	15	20
Start of reaction (sec)	120	60	25	10
End of reaction (sec)	300	200	110	50
Foam expansion rate (approx.)	25	25	25	30

Technical Properties

Denisty (20°C)	1,16 g/cm ³
Viscosity (23°C)	320 mPa.s
Color	Brown
Application Temperature	+5°C to 40°C
Maximum Foam Expansion Rate at 10% Accelerator Dosage	25 - 30

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Packaging

MasterRoc[®] MP 355 1K is available in 25 kg cans
MasterRoc[®] MP 355 1K Accelerator is available in 2.5 kg cans

Cleaning of Tools

During short breaks in the injection procedure, the pump and hoses should be filled with non-accelerated resin to avoid blockages. 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 355 1K** is completely washed out. Store the pump and hoses with the cleaning agent inside and seal all openings.

Storage and Shelf Life

MasterRoc[®] MP 355 1K must be stored in airtight containers in a cool, dry place. If stored in original containers under the above-mentioned conditions, it has a shelf life of 24 months. The product must be prevented from freezing

Health and Safety

MasterRoc[®] MP 355 1K is not hazardous. However, follow standard safety procedures when handling the product and wear gloves and safety glasses. Avoid eye and skin contact. If skin contact occurs, wash with plenty of water and soap. In case of eye contact rinse with plenty of water and seek medical advice. For further information refer to Safety Data Sheet. The cured product is harmless and inert. 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. **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** is only responsible for the quality of the product **MBT Teknik Yapı Kimyasalları Sanayi ve Ticaret A.Ş.** 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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