

# MasterRoc<sup>®</sup> MP 350

One component water sealing injection resin for cracks and fissures in concrete and rock

## Material Description

MasterRoc MP 350 is a single component hydrophilic polyurethane-based injection resin which forms a permanent, impermeable and flexible sealing material on contact with water.

## Areas of Application

- Permanent crack sealing of underground structures
- Sealing of minor water ingress
- Upgrading of temporary water sealing to permanent solution
- For use with MasterFlex 900 injection hoses

## Characteristics and Benefits

- Permanent sealing effect.
- Forms a closed cellular material giving an impermeable, high resilience seal against water ingress.
- Reacts in moist and wet surroundings.
- Good bonding to wet surfaces.
- Foams upon contact with water.
- Penetration of fissures smaller than 0.05 mm.

## Packaging

Part A:

210 liter drums and 1000 liter containers

Accelerator for Part A:

210 liter drums and 1000 liter containers

## Technical Data

Density, 20°C	1.15 g/cm <sup>3</sup>
Viscosity, 23°C	250 mPa.s
Color	Colorless to yellowish
Application temperature	+ 5°C to 40°C

## Application Procedure

Wet/flowing water conditions:

1. If required, add MasterRoc MP 350 Accelerator to MasterRoc MP 350 (up to 10%, depending on the required reaction time) and mix quickly and thoroughly.

2. Inject this mixture through a single component injection pump. The moisture / water from the ground or structure will cause the foaming and curing reaction.

Dry conditions:

1. For injection purposes, flush holes with water to thoroughly wet the injection area.
2. Inject MasterRoc MP 350 through a single component injection pump.
3. If a faster reaction is required, add the optional MasterRoc MP 350 Accelerator as described above.



example of a single component injection pump

## Reaction Time

The reaction time depends on the temperature of the product and the ground. As indicated in Table 1, the reaction times at different temperatures have been measured in the laboratory. Site trials should therefore be performed in advance.

Table 1: Reaction time with 10% MasterRoc MP 350 Accelerator + 10% water

Initial Temperature °C	5	10	15	20
Start of foaming (sec)	98	63	41	30
End of foaming (sec)	145	128	109	88
Foam factor	6	7	8	8

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## 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 350 is completely washed out. Store the pump and hoses with the cleaning agent inside and seal all openings.

## Storage

MasterRoc MP 350 must be stored in airtight containers in a cool, dry place. If stored in tightly closed original containers under the above-mentioned conditions, it has a shelf life of 24 months. The product must be pre-vented from freezing.

## Precautions

MasterRoc MP 350 is not hazardous. However, follow standard safety procedures when handling the product and wear gloves and face / eye protection. 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 Material Safety Data Sheet.

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 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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