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# MasterRoc® MP 350

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

## 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.

## FIELDS OF APPLICATION

- Permanent crack sealing of underground structures
- Sealing of minor water ingress
- Upgrading of temporary water sealing to permanent solution
- For use with **MasterSeal 909** injection hoses

## FEATURES 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.

**MasterRoc MP 350** can be injected as a simple resin, but also has a faster reaction option for flowing water by adding a small quantity of the **MasterRoc MP 350** Accelerator.

## PACKAGING

*Injection resin:*
**MasterRoc MP 350**: 25 kg cans

*Optional accelerator:*
**MasterRoc MP 350** Accelerator: 2.5 kg cans

## TECHNICAL DATA*

**MasterRoc MP 350**

| | |
|---|---|
| Density, 20°C | 1.15 g/cm$^3$ |
| 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.

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## 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 gel time, the temperature will have a big influence. Site tests are recommended.

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 |

## 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

**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 12 months. The product must be prevented from freezing.

## SAFETY 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.

* Properties listed are based on laboratory controlled tests.

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**BASF_CC-UAE/Roc_MP350/v2/07_14**



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