

MasterRoc[®] MP 355 1K DW

One component injection foam to stop small to mid-volume water ingress, with a potable water certificate

DESCRIPTION

MasterRoc MP 355 1K DW is a solvent free, single component polyurethane foam which reacts only in contact with humidity or water and is certified for contact with potable water (DW: Drinking Water).

TYPICAL APPLICATIONS

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

ADVANTAGES

- Reacts in moist surroundings
- Good bonding to wet surfaces
- Forms a flexible foam

PACKAGING

MasterRoc MP 355 1K DW: 25 kg cans
 Accelerator for **MasterRoc MP 355 1K DW:**
 2.5 kg cans

TYPICAL PROPERTIES*

MasterRoc MP 355 1K DW

| | |
|---|------------------------|
| Density, 20°C | 1.16 g/cm ³ |
| Viscosity, 23°C | 700 mPa.s |
| Color | Yellowish |
| Application temperature | + 5°C to 40°C |
| Maximum foam expansion rate at 10% accelerator dosage | 20-30 |

Accelerator for MasterRoc MP 355 1K DW

| | |
|-----------------|------------------------|
| Density, 20°C | 1.10 g/cm ³ |
| Viscosity, 23°C | 70 mPa.s |
| Color | Clear to yellowish |

APPLICATION GUIDELINES

1. Add the accelerator to **MasterRoc MP 355 1K DW** (up to 10%, depending on the required reaction time), mix quickly and thoroughly.
2. Inject this 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 1). Site trials should be performed in advance to establish the required reaction time.

Table 1:

| Reaction Times with 10% water and 10% accelerator | | | | |
|---|-----|-----|-----|----|
| Initial Temperature (°C) | 5 | 10 | 15 | 20 |
| Start of reaction (sec) | 130 | 65 | 30 | 15 |
| End of reaction (sec) | 350 | 250 | 120 | 60 |
| Foam expansion rate (approximately) | 20 | 25 | 25 | 30 |

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CLEANING OF INJECTION EQUIPMENT

During short breaks in the injection procedure, the pump and hoses should be filled with non-accelerated resin to avoid blockages. After finishing the injection, pump an appropriate agent or oil which does not contain water through the pump and injection lines.

HEALTH AND SAFETY

MasterRoc MP 355 1K DW 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 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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Master Builders Solutions
Construction Chemicals LLC
P.O. Box 37127, Dubai, UAE
Tel: +971 4 8090800
www.master-builders-solutions.com/en-ae

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