

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

TECHNICAL DATA

MasterRoc MP 355 1K

Density, 20°C	1.16 g/cm ³
Viscosity, 23°C	320 mPa.s
Colour	Brown
Application temperature	+5°C to + 40°C
Maximum foam expansion rate at 10% accelerator dosage	25 – 30

Accelerator for MasterRoc MP 355 1K

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

APPLICATION

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 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)	120	60	25	10
End of reaction (sec)	300	200	110	50
Foam expansion rate (approximately)	25	25	25	30

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.

PACKAGING

MasterRoc MP 355 1K: 25 kg cans

Accelerator for MasterRoc MP 355 1K: 2.5 kg cans

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.

PRECAUTIONS

For the full health and safety hazard information and how to safely handle and use this product, make sure that you obtain a copy of the Safety Data Sheet (SDS) from our office or website.

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DISCLAIMER

MasterRoc-MP 3551K -ANZ-V11-0221

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