

MEYCO[®] MP 350

Single component permanent flexible water sealing injection grout for cracks and fissures in concrete and rock

Product description

MEYCO[®] MP 350 is a single component hydrophilic injection resin based on polyurethane which forms an impermeable flexible sealing material when in contact with water.

This product does not contain toxic TDI.

Fields of application

MEYCO[®] MP 350 is recommended for:

- Permanent structural crack sealing of underground structures – tunnels, shafts, basements, underpasses etc
- Filling of water bearing voids
- Sealing off seeping water
- For use with MASTERFLEX[®]900 injection hoses

Features and benefits

MEYCO[®] MP 350 is an injection resin based on MDI Isocyanate. The product reacts under wet conditions and forms a closed cellular material giving an impermeable, high resilience seal against water flow.

- Reacts in moist surroundings
- Good bonding to wet surfaces
- Permanent sealing effect
- Penetration of fissures smaller than 0.05mm
- Does not contain toxic TDI Isocyanate
- Swelling upon contact with water
- Has low shrinkage compared to standard TDI based injectable sealing products

MEYCO[®] MP 350 can be injected as a simple resin, or has the option to have a faster reaction in case of flowing water by adding a small quantity of the accelerator MEYCO[®] MP 350 Accel.

Packaging

Injection resin:

MEYCO[®] MP 350: 4.55 kg cans

Optional accelerator:

MEYCO[®] MP 350 Accel: 0.45 kg cans

*Technical data

MEYCO[®] MP 350

Density, 20°C	1.15 g/cm ³
Viscosity, 23°C	300 mPas
Flash point	>80°C
Odour	Slightly fruity
Colour	Colourless to yellowish
Application temperature	+ 5°C to 40°C
Elongation at break (void free sample)	>50%
Foam factor at 20°C at 10% MEYCO [®] MP 350 Accel dosage (dependent on water amount in contact)	Free foam 8

Application procedure

Wet/flowing water conditions:

1. If required, add the accelerator MEYCO[®] MP 350 Accel to MEYCO[®] MP 350 (between 1 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.

MEYCO[®] MP 350

Dry conditions:

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

Note: After injection work has been finished, it is recommended to pump some flushing oil through the pump. In this way the pump stays clean until the next use. Failure to do so may lead to pump and line blockage due to the reaction between the remaining resin and air humidity.

Reaction Time

The reaction time depends not only on the temperature in the structure or rock, but also on the temperature of the product itself. As indicated in Table 1, the resin reaction times at different temperatures have been measured in the laboratory to give a good indication of performance. However it is advisable to get the required reaction time on site.

Site trials should be therefore performed prior to commencing the works.

Reaction time with 10% MEYCO[®] MP 350 ACCEL + 10% water

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

Table 1

Storage

MEYCO[®] 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 the shelf life of MEYCO[®]

MP 350 is 12 months. MEYCO[®] MP 350 must be protected from freezing.

Safety precautions

MEYCO[®] MP 350 is based on 4,4' Diphenylmethandiisocyanate (MDI), whilst the MEYCO[®] MP 350 Accel is amine based. MEYCO[®] MP 350 is physiologically not hazardous once reacted. 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.

Non-reacted material should be disposed of in designated suitable sites. It is advisable to let the product react with water to form foam and dispose of in normal waste sites.





The Chemical Company

MEYCO[®] MP 350

Pic.1 MEYCO MP[®] 350 after curing with moisture from air humidity or from the structure



Pic.2 MEYCO[®] MP 350 foamed after reaction with water excess

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* Properties listed are based on laboratory controlled tests.

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