

MEYCO® MP355 1K

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Watertight injection foam for filling holes and jointed rock, as well as cutting of running water

Product description

Meyco® MP 355 1K is a solvent free, single component polyurethane foam.

Fields of application

Meyco® MP 355 1K is recommended for:

- Pre injection of jointed rock
- Stabilisation of jointed rock
- Sealing off flowing water
- Stabilisation of coarse sand and gravel
- Filling of water bearing voids

Features and benefits

Meyco® MP 355 1K is a solvent free, injection and filling material based on polyurethane. The product reacts specially under wet conditions.

- Reacts in moist surroundings
- Good bonding to wet surfaces
- Sealing off running water

Packaging

Meyco® MP 355 1K: 25 kg cans
Accelerator for Meyco® MP 355 1K : 2.5 kg cans

Technical data

Meyco® MP 355 1K

Density, 20°C	1.15 g/cm ³
Viscosity, 23°C	300 mPa.s
Flash point	180°C
Odour	none
Colour	Brown
Application temperature	+ 5°C to 40°C
Foam expansion at 23°C at 10%	Free foam
accelerator dosage	1:25-30

Accelerator for Meyco® MP 355 1K

Density, 20°C	1.10 g/cm ³
Viscosity, 23°C	70 mPa.s
Flash point	110°C
Odour	Pungent
Colour	Clear to yellowish

Application procedure

Wet conditions:

1. Add the accelerator to Meyco® MP 355 1K (between 2-10%, depending on the required reaction time) mix well (See Table 1).
2. Inject this mixture through a single component injection pump. The moisture / water from the rock will cause the foaming reaction.

Dry conditions:

1. For injection purposes, flush holes with water to thoroughly wet the injection area.
2. Add accelerator to Meyco® MP 355 1K (between 2-10% depending on the required reaction time) (See Table 1), mix well.
3. Inject this mix through a single component injection pump.

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. When this is not done there might occur a reaction between the residual product left in the pump and injection lines and the air humidity.

Alternatively, after injection, pump some Meyco® MP 355 1K without accelerator through the pump. This will reduce any reaction between the product and moisture in the equipment.

Reaction Time

The reaction time depends not only on the temperature in the rock, but also on the temperature of the product itself. The example of reaction times with different accelerator dosages (see Table 1) have been measured in the laboratory. It is normal to get the required reaction time on site. Therefore site trials should be performed initially.

Storage

Meyco® MP 355 1K must be stored in airtight containers in a cool, dry place. If stored in tightly closed original containers under the above mentioned conditions the self life of Meyco® MP 355 1K is 12 months. Both components of Meyco® MP 355 1K must be protected from freezing.

Safety precautions

Meyco® MP 355 1K is based on 4,4'-Diphenylmethandiisocyanate (MDI), whilst the accelerator is based on an amine.

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 factor	ca 25	ca 25	ca 25	ca 30

Meyco® MP 355 1K 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.

Not reacted material should not be disposed of except to special sites. It is better to let the product react with water to form foam and afterwards dispose on landfill.