

MEYCO[®] MP355 1K

Watertight injection foam for filling voids and jointed rock, as well as cutting off running water

Product description

MEYCO[®] MP355 1K is a solvent free, single component polyurethane foam.

Fields of application

MEYCO[®] MP355 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[®] MP355 1K is a solvent free, injection and filling material based on polyurethane. The product reacts particularly under wet conditions.

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

Packaging

MEYCO[®] MP355 1K: 25kg cans Accelerator for MEYCO[®] MP355 1K : 2.5kg cans

*Technical data

MEYCO[®] MP355 1K

Density, 20°C	1.16 g/cm ³
Viscosity, 23°C	320 mPa.s
Flash point	180°C
Odour	Slightly aromatic
Colour	Brown
Application temperature	+ 5°C to 40°C
Foam expansion at 23°C at 10% accelerator dosage	Free foam 1:25-30

Accelerator for MEYCO[®] MP355 1K

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

Application procedure

Wet conditions:

1. Add the accelerator to MEYCO[®] MP355 1K (between 2-10%, depending on the required reaction time) (See Table 1), mix quickly and thoroughly
2. Inject this mixture through a single component injection pump. The moisture / water in the ground or structure 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[®] MP355 1K (between 2-10% depending on the required reaction time) (See Table 1), mix quickly and thoroughly.
3. Inject this mix through a single component injection pump.

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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, a reaction may occur between the residual product left in the pump and injection lines and the air humidity.

Caution: Pumping MEYCO[®] MP355 1K without accelerator through the pump after injection is not advisable.

Reaction Time

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

Storage

MEYCO[®] MP355 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 shelf life of MEYCO[®] MP355 1K is 12 months. Both components of MEYCO[®] MP355 1K must be protected from freezing.

Safety precautions

MEYCO[®] MP355 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.

Non reacted material should only be disposed to special designated sites. It is better to let the product react with water to form foam and afterwards dispose to landfill sites.

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

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* Properties listed are based on laboratory controlled tests.

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