

MEYCO® MP308

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Solvent-free, low viscosity, fine injection acrylic resin for permanent water sealing of underground structures

Product description

MEYCO MP308 is a solvent free, water-soluble injection resin designed to be used as a permanent water sealing resin for cracks and injection hoses in underground structures. With its low viscosity, MEYCO MP308 is used to inject damp areas and cracks in concrete, porous brick via packers and injection works via injection hoses. MEYCO MP308 is used at temperatures above 5°C and will cure to form a flexible and solid plastic, able to withstand permanent water pressure.

Injection hoses up to 10 meters can be injected and vacuumed due to the low viscosity and water soluble properties of the product. In case of small ground/structure settlement or movement within the joint or crack MEYCO MP308 will permanently seal since the product can swell up to 150% of its initial volume. **The swelling is reversible and after dry periods the resin maintains its self-healing properties.**

MEYCO MP308 is stable against acid and alkaline solutions, many solvents and fuel. It does not attack bitumen, PVC waterstops or concrete.

Features and benefits

- Resists permanent water pressure
- Suitable for crack sealing and injection hose applications

- Very low viscosity allow deep penetration into very fine cracks
- Controlled gel time
- Good bonding to wet surfaces
- Workable between +5 C and + 40 C
- Environmentally friendly
- Flexible and self healing gel allowing for structural movement
- NSF certification for use in drinking water systems (please refer to www.nsf.org)

Packaging

Resin: 2 x 10 kg

Accelerator: 2 x 1 kg

Hardener powder: 3 x 22g sachets

Plastic bottle For hardener solution

TOTAL PACK: 22.1 kg

Packs per pallet: 30

Certified to
NSF/ANSI 61

Technical data

| | Resin | Accelerator | Mix |
|---------------------|---------------|------------------|-------------------|
| Viscosity (20°C) | 50 mPa.s | n/a | 40 mPa.s |
| Density (20°C) | 1.06 kg/litre | 1.1kg/litre | 1.065 kg/litre |
| pH-Value (20°C) | 5.5 | 11 | 8.5 |
| Colour | white | Yellow Orange | yellow |

Approximate values

Application procedure

Mixing

1. Pour 1 litre of resin into a bucket
2. Fill the bottle for Hardener Solution with water up to the 500ml mark and add 1 bag of Hardener Powder (22g). Shake until Powder is completely dissolved. Add Hardener solution to the resin according to the chart
3. Add accelerator to the resin according to Table 1

Mix injection resin until colour is uniform and inject within the pot-life

Table 1: Pot Life

| | | Pot-life | | | | |
|------------------------|-------|----------|----------|----------|----------|---------|
| | | 20 Min. | 30 Min. | 40 Min. | 50 Min. | 60 Min. |
| Processing temperature | 5° C | | | 120 / 50 | 105 / 50 | |
| | 10° C | | 142 / 50 | 105 / 50 | 80 / 50 | |
| | 15° C | | 82 / 50 | 72 / 50 | 65 / 50 | 62 / 50 |
| | 20° C | 77 / 50 | 65 / 50 | 55 / 50 | 47 / 50 | 42 / 50 |
| | 25° C | 68 / 50 | 55 / 50 | 45 / 50 | 37 / 50 | 32 / 50 |
| | 30° C | 50 / 50 | 35 / 50 | 30 / 50 | 27 / 50 | 25 / 50 |
| | 35° C | 42 / 50 | 30 / 50 | 25 / 50 | 22 / 50 | 20 / 50 |
| | 40° C | 32 / 50 | 25 / 50 | 22 / 50 | 20 / 50 | |
| | 45° C | 27 / 50 | 22 / 50 | | | |
| | 50° C | | | | | |

Always add 50 ml of Hardener solution to 1 Liter of resin.

The amount of accelerator required depends on the requested Gel-time within the present temperature.

If larger quantities are mixed, the amount of Hardener solution and accelerator must be increased proportionally.

Remark: at low/high object temperatures the Gel-time of the injection resin will be longer respectively shorter

Caution: Processing of resin should be stopped 10 minutes prior the pot-life indicated in chart!

The pot-life is very much dependent on ambient temperature and amount mixed at once. Table 1 shows the amount of accelerator required under different temperatures. Please note that the temperature stands for the combined value of structure, air and resin temperature.

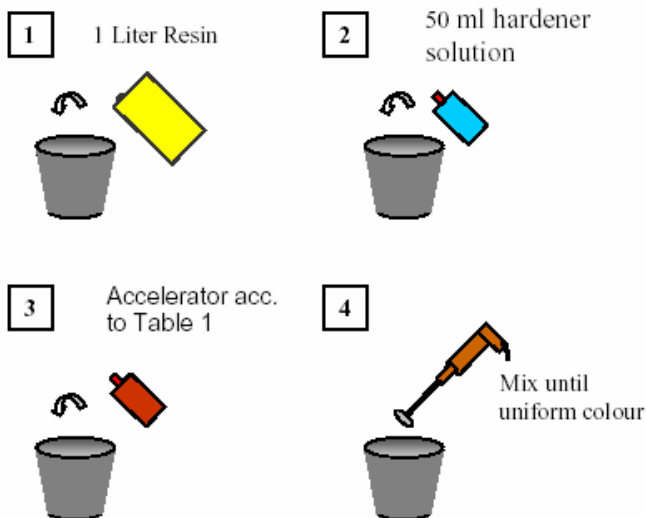
Injection

Injection of the gel is normally carried out using one component pumps. For one component pump injection do not mix large amounts, always choose the volume mixed in accordance with the expected consumption and the time frame! Wearing parts coming in contact with MEYCO®

MP308 should be made of stainless steel or be chrome plated. Product containers should be made of plastic. Always protect gel from sunlight and excessive heat to avoid uncontrolled polymerisation.

Cleaning of injection equipment

Equipment spoiled with uncured resin and spillage on site can be cleaned with soap water



or store equipment in water. This will allow the resin to swell and enables cleaning thereafter.

Storage

MEYCO® MP308 should be stored in its original packaging at temperatures between 10° and 25° Celsius. In unopened, original containers MEYCO® MP308 has a shelf life of 12 months. For further storage details please refer to the Material Safety Data Sheets.

Safety precautions

Acrylic gels will irritate the eyes and the skin and may cause sensitisation through skin contact. Normal hygienic precautions (protective glasses, gloves and overalls) shall be taken. Wash hands before eating or smoking.

The cured MEYCO® MP 308 is physiologically harmless. Uncured MEYCO® MP 308 components must not be allowed to enter the local drainage system, rivers, lakes and ground water. Spillage must be treated with absorbent material (sand or sawdust) and disposed of in the same way as containers with residues of uncured material according to local regulations. For further information on safety measures, refer to the product Material Safety Data Sheets for the Component A, Accelerator and Hardener.