

MASTERFLEX[®] 801

Vinyl Ester Methacrylate resin for crack injection via injection hoses and packers

Description

MASTERFLEX[®] 801 is based on vinyl ester methacrylate technology.

Typical uses

- Injection into MASTERFLEX[®] 900 hose system or directly into concrete and rock. Due to its low viscosity microcracks and capillaries can easily be filled by injection.
- In contact with water it increases its volume. This enables sealing to take place even when the crack moves. No other materials have the same characteristics.
- The expansion is dependent on the amount of water available.
- Works in a saline environment

Advantages

- Good bond to damp surfaces. In contact with water no extraneous reactions take place, therefore no gas bubbles or foam layer are formed, both of which would hinder the bonding process.
- Resistant to weak acids, salt solutions, oils, fats and hydrocarbons.
- In wet and humid conditions, there is a balance between the water content of the adjacent medium and MASTERFLEX[®] 801.
- Remains expanded when concrete has a moisture content.
- The expansion of MASTERFLEX[®] 801 is reversible and is unaffected by ageing or electrolytic water.
- Withstands permanent water pressure.
- Suitable for injection with one component or two component pumps.
- Satisfies the requirements of drinking water regulations and is therefore suitable for sealing drinking water containers.

Packaging

MASTERFLEX[®] 801 is supplied in three component packages of 22.066kg and 5.522kg.

	Resin Liquid	Hardener Powder	Accelerator Liquid
Colour	White	white	Yellow orange
Packing	2 x 10kg	3 x 22g	2 x 1kg

*Technical data

Chemical base	Acrylate polymer
Density of mix at 20°C	ca. 1.065 kg/dm ³
Viscosity of mix at 20° C	< 40 mPa s
Pot life of mix at 20° C	20-60 minutes (see mixing chart)
Temperature of application	+5°C to +40°C
Storage conditions	Original packing, +10°C to
Shelf life	+30°C: 12 months

Application procedure

MASTERFLEX[®] 801 is supplied in 3 components. (Component resin, Hardener Powder, Accelerator)

Mixing:

Fill bottle for Hardener Solution (empty) with 500 ml water, add 1 bag of Hardener water. Shake bottle until Powder is completely dissolved. Mix the required amount of resin with Hardener Solution, 1 Litre resin requires 50ml of Hardener Solution. Prior to use add accelerator according to the supplied chart. The amount of accelerator per litre depends on the required pot-life at the present ambient temperature. Mix the injection resin until colour is uniform and inject with in pot life.

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Application:

The injection of MASTERFLEX[®] 801 must be done by high pressure injection pump. All parts touching the fluid should be made either of stainless steel or chrome coated. Product containers should be made of plastic. Protect resin from sunlight and excessive heat to avoid uncontrolled polymerisation. Do not mix large amounts and always choose the volume mix in accordance with the expected consumption and time frame.

The pot-life is very much dependent upon ambient temperature and the amount mixed. A pot-life chart is available upon receipt of MASTERFLEX[®] 801 that shows the amount of accelerator required at different temperatures.

Curing / after treatment:

None.

Equipment care

All equipment used in processing must be cleaned with soap and water, both when work is interrupted and on conclusion of work.

Storage

Store in a cool dry place, under cover, out of direct sunlight and protect from extremes of temperature.

Safety precautions**Eye / skin contact**

Contact with the skin and mucous membranes should be avoided. During processing operations protective goggles must always be worn. If product touches the skin, wash

immediately using soap and water, possibly with the addition of household vinegar. If it gets into the eyes, rinse thoroughly with an eyebath filled with boric solution. An eye specialist should always be consulted. For further information including disposal instructions refer to the Material Safety Data Sheet.

Following curing, MASTERFLEX[®] 801 is physiologically harmless.

Note

Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BASF representative.

BASF reserves the right to have the true cause of any difficulty determined by accepted test methods.

Quality and care

All products originating from BASF's SA facility are manufactured under a management system independently certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and OHSAS 18001.

* Properties listed are based on laboratory controlled tests.

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As all BASF's technical datasheets are updated on a regular basis it is the user's responsibility to obtain the most recent issue.

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