MC-Fastpack

Injection and Adhesive Systems

EXPERTISE
INJECTION SYSTEMS

BE SURE. BUILD SURE.

Contents

MC-Fastpack – compact, reliable, fast

The MC-Fastpack system offers numerous technical and economic advantages for a wide range of injection and adhesion applications in the construction industry.

Repair jobs can be performed safely and fast with this professional 2-component technology. And, offering a range of reactive resins, the MC-Fastpack system is quickly ready for use.

- Sealing of cracks, cavities and joints
- Reprofiling and patching of surfaces
- Bonding of packers, pull-off heads/stubs, fixing dowels, wall plugs, anchors and components
- Immediate stoppage of partial water ingress

Injection system

Injection system

Almost every civil engineering or building construction project involves injection work of some kind. Often, it is just minor jobs, albeit ones that need to be done quickly with assured reliability. From flexible with MC-Fastpack 2300 top to rigid with MC-Fastpack 1264 compact, the MC-Fastpack system offers a suitable solution for all standard injection applications.

With 2-component cartridge technology and the MC-Fastpack Power-Tool dispenser, high-quality injection resins can be applied to a professional standard. Once injection starts, the ideal flow behaviour of the resins already becomes apparent at low pressure. The system is completed by bore and adhesion packers together with the requisite adhesive and sealant materials.

Crack and joint filling system

Filler compound for wide cracks and joints

The MC-Fastpack system eliminates a lot of the manual work otherwise required for the filling of wide cracks or joints with synthetic resins. This is because, with the MC-Fastpack system, the mixing of the resin components and the injection operation are performed together in the same cycle.

The filler materials can thus be directly introduced into the cracks or joints requiring treatment. And the 2-component technology means that rapidly setting resins can also be employed – thus ensuring that components become ready for use or operation within just a short time.

Coating system

Auxiliary products for coating systems

Coatings serve to protect cracked components. However, problems often arise with regard to their crack-bridging capability and the danger of rising damp. The preliminary treatment of cracks with an injection material such as MC-Fastpack 1264 compact or a thixotropic adhesive such as MC-Fastpack PU solid ensures coating success.

Patching and partial reprofiling can be performed with minimum effort when using MC-Fastpack adhesives. The two pseudoplastic reaction resins MC-Fastpack PU solid and MC-Fastpack EP solid are quick and efficient to apply. Their good stability also ensures that they can be readily used on vertical and overhead surfaces. With their short curing times, these speciality adhesives become fully resilient and loadable within a short period.

Adhesive system

Adhesive system for packers, pull-off heads/stubs, fixing dowels, wall plugs, anchors and components

The specialty adhesives MC-Fastpack PU solid and MC-Fastpack EP are suited to a wide range of typical construction-related applications. With their high strength values, MC-Fastpack adhesives create strong bonds between different building materials. They are thus also ideal for attaching tensile adhesion strength testing devices (pull-off heads or stubs) as well as for adhesive-bonding component assemblies.

MC-AnchorSolid E820 is also available for the bonding of anchoring devices used in structurally relevant applications. This Fastpack product has building authority approval for bonding steel rod and bar with diameters of 8 to 20 mm in concrete.

MC-Fastpack system components

	Rigid injection compounds	Water stoppage	Sealing of cavities and joints	Coating Reprofiling	Bonding
MC-Fastpack 1264 compact	● [1]			●	●
MC-Fastpack 2300 top		● [2]	●		
MC-Fastpack 2700	● [1]	● [1]	●		
MC-Fastpack Injekt LE	● [3]	● [3]	●		
MC-Fastpack PU solid	● [3]		●	●	●
MC-Fastpack EP solid	● [3]		●	●	●
MC-AnchorSolid E820	● [3]		●	●	●

[1] > 0.3 mm
[2] > 0.1 mm
[3] > 1.0 mm

MC-Fastpack Power-Tool: Technical properties

Characteristic	Unit	Value
Mixing ratio	Parts by volume	1:1 / 2:1 and 4:1
Air requirement	l/min	approx. 3
Max. air intake pressure	bar	10
Max. operating pressure	bar	6.8
Continuous sound pressure level	dB	< 83
Weight	kg	2.5
Max. cartridge content	ml	400

The MC-Fastpack Power-Tool is supplied with all the components you need for on-site operation.

1. MC-Fastpack Power-Tool dispenser
2. Ready-fitted tray for holding cartridges for mixing ratios of 1:1 and 2:1
3. Additional tray incl. accessories for holding cartridges for mixing ratios of 4:1
4. Setting tool for MC-Hammer Packer LP 12
5. Instruction handbook
6. MC-Fastpack Power-Tool case

Strengthening and waterproofing – reinforced concrete, masonry

MC-Fastpack 1264 compact

Product properties

- Low-viscosity epoxy resin
- Moisture-tolerant
- Penetrative action
- Fast-curing, even under dynamic loading
- High tensile and compressive strength
- CE-compliant to EN 1504-5
- High chemical resistance

Areas of application

- Rigid filling of cracks, joints and cavities in buildings and civil and structural engineering structures under both dry and damp conditions

Flexible sealing – reinforced concrete, masonry, foundation soil

MC-Fastpack 2300 top

Product properties

- Low-viscosity polyurethane resin
- Water-displacing action
- High ductility
- Flexible at low temperatures
- CE-compliant to EN 1504-5
- Hygienically harmless in contact with soil and groundwater
- High chemical resistance

Areas of application

- Ductile sealant for cracks, joints and cavities in buildings and civil and structural engineering structures
- Waterproofing of hydraulic structures, sewerage structures and structures in contact with groundwater

Water stoppage and reinforcing – reinforced concrete, masonry, foundation soil

MC-Fastpack 2700

Product properties

- Low-viscosity polyurethane resin
- Highly reactive
- Fast-curing
- Firmly resilient
- Foams in contact with water

Areas of application

- Sealing of cracks, joints and cavities, and reinforcement of buildings and civil and structural engineering structures
- Waterproofing of hydraulic structures, sewerage structures and structures in contact with groundwater

Water stoppage and cavity filling – reinforced concrete, masonry, foundation soil

MC-Fastpack Injekt LE

Product properties

- Low-viscosity polyurethane resin
- Highly reactive
- Rapid expansion
- Very fast curing times
- Firmly resilient
- Hygienically harmless in contact with soil and groundwater

Areas of application

- Stoppage of water ingress
- Sealing cracks, joints and small cavities
- Filling voids
- Consolidation of foundation soil

Bonding, patching, injecting – reinforced concrete, masonry

MC-Fastpack PU solid

Product properties

- Thixotropic polyurethane resin
- Trowelable, including for overhead application
- Fast-curing
- Good adhesion on mineral and metal substrates
- Firmly resilient

Areas of application

- Bonding of mineral and metallic building materials and also certain plastics
- Bonding of adhesion packers for injection work
- Closing of joints and wide cracks
- Patching of dynamically stressed cracks
- Sealing / levelling of voids, apertures and spalled areas

Bonding, anchoring, injecting – reinforced concrete, masonry

MC-Fastpack EP solid

Product properties

- Thixotropic epoxy resin
- Moisture-tolerant
- Fast-curing
- Suitable for overhead application
- Low working temperature
- Good adhesion
- High tensile and compressive strength

Areas of application

- Bonding of mineral and metallic building materials and also certain plastics
- Bonding of adhesion packers for injection work
- Closing of joints and wide cracks
- Patching of structurally stressed cracks
- Sealing / levelling of voids, apertures and spalled areas

Preparation

1. Unscrew retaining nut and remove lock washer.

2. Fit static mixer nozzle and secure with retaining nut.

3. Check the cartridge tray for correct mixing ratio.

4. Insert cartridges in the MC-Fastpack Power-Tool dispenser.

Operation

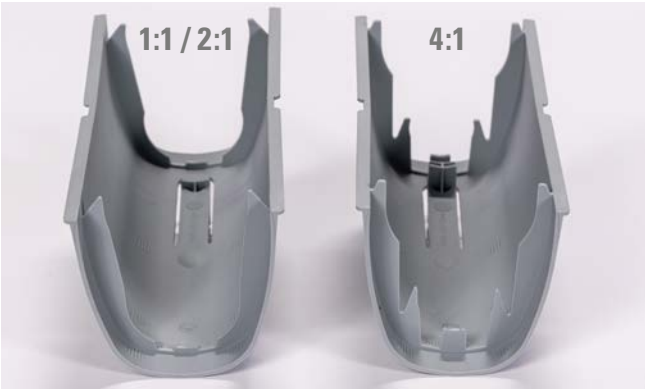
1. Connect air compressor.

2. Set air pressure limit at regulating valve.

3. Insert mixer nozzle in the packer inlet spigot. Hold firmly in position and press trigger to inject.

4. Actuate the pressure release button before switching to the next packer and also before any cartridge replacement.

Cartridge tray replacement



The MC-Fastpack Power-Tool dispenser is supplied ready-fitted with a tray for holding cartridges for mixing ratios of 1:1 and 2:1.

In order to be able to use cartridges with a mixing ratio of 4:1, the case kit contains a second cartridge tray including a plunger disc exchange set.

Replace the bottom plunger disc before fitting the new cartridge tray:
Larger plunger disc for mixing ratios 1:1 and 2:1;
Smaller plunger disc for mixing ratio 4:1 (see page 19).

1. Press the cartridge shell upwards and remove it.

2. Undo the plunger screws and remove the plunger discs.

3. Insert and screw down the appropriate plunger discs matching the selected cartridge tray.

4. Insert the required cartridge tray and press down so that the retaining clips engage.

Bore packers

MC-Hammer Packer LP 12

Product properties

The MC-Hammer Packer LP 12 is inserted in bores drilled to a diameter of 12 mm. As a rule, these need to be placed alternately at an angle of approx. 45° along the crack, so that the crack is crossed in the middle of the component cross section. The spacing of the bores / packers will depend on the depth of the crack. When hammering the packers into the bores, ensure that the inlet spigot is protected with a setting tool. Once injected, knock off the spigot so that the packer is flush with the surrounding surface.

The inlet spigot of the packer is dimensioned so that the tip of the cartridge mixer nozzle can be inserted under manual pressure. As injection proceeds, keep applying firm manual pressure to this plug-in connection (see page 17).

Technical Data

Bore	Ø 12 mm
Valve	integrated, self-closing
Inlet spigot	Ø 7 mm ID
Max. injection	approx. 50 bar
Material	Plastics

Adhesion packers

MC-Surfacepacker LP

Product properties

MC-Surfacepacker LP packers are bonded directly over the crack. The crack line and the packer footprints are fully filled and covered with the sealant material. The spacing of the adhesion packers will depend on the depth of the crack.

The packers feature a shutoff slide valve and a quick-release connector. The inside diameter is dimensioned so that the nozzle tip of the mixer can be inserted under manual pressure into the packer inlet spigot.

Technical Data

Adhesion	Ø 50 mm
Valve	Slide valve
Inlet spigot	Quick-release
Max. injection	approx. 30 bar
Material	Plastics

Safety instructions

Please ensure you carefully read through the operating manual of the MC-Fastpack Power-Tool dispenser!

You will find the operating manual in the kit case or at www.mc-bauchemie.de

Correct functionality and operational safety can only be ensured if users are familiar with and observe all safety instructions in the operating manual.

The MC-Fastpack Power Tool bears the CE mark in compliance with the relevant European directives. The MC-Fastpack Power-Tool must not be used until the operating procedure and the instructions described in the operating manual have been read and understood. The MC-Fastpack Power-Tool operates under pressure.

If the pressure is too high, unintentional escape of injection materials or adhesives, bursting of the cartridges or fracturing of the MC-Fastpack Power Tool may occur, with the potential for serious injury to persons and damage to property.

Tampering with or modification to MC-Fastpack Power-Tool by persons not authorised by the manufacturer, as well as non-observance of the safety regulations detailed in the operating manual, is dangerous and can lead to accidents causing serious injury and/or material damage.

The MC-Fastpack Power-Tool dispenser has been developed for mixing and dispensing material from double chamber cartridges manufactured by MC-Bauchemie. Other or additional applications are deemed non-intended use. Compliance with the instructions in the operating manual is mandatory to satisfy intended use requirements.

Personal protective equipment designed for working with chemical substances under pressure must be worn. Compliance with the hazard warnings and safety advice pertaining to the reactive resins used as published in the respective technical data sheets and safety data sheets is obligatory.

Applicable directives, codes and standards

2006/42/EG:	Machinery Directive
2014/68/EU:	Pressure Equipment Directive
ISO 8573-1:	Compressed Air Purity Classes

The original operating manual is written in German.

MC-Fastpack

Injection and adhesive systems – wide application versatility

- Injection
- Bonding
- Patching

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