



MC-Fastpack

Injection and Adhesive Systems

EXPERTISE
INJECTION SYSTEMS

MC
BE SURE. BUILD SURE.

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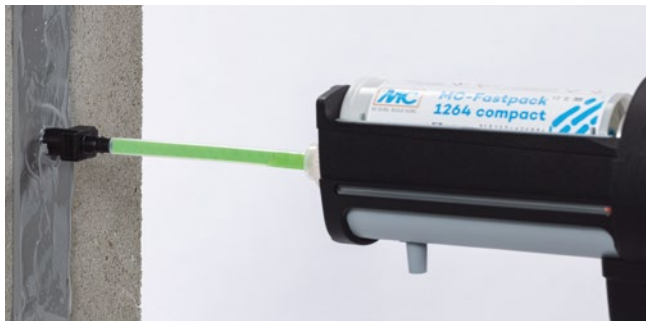
MC-Fastpack – compact, reliable, fast

Many injection and repair jobs can be performed safely and fast with professional 2-component technology. The MC-Fastpack system offers a range of reactive resins fast and easy to use.

- Sealing of cracks, cavities and joints
- Over-banding 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** and **MC-Fastpack 2700**, 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 polymer reactive resins. With the MC-Fastpack system, the mixing of the resin components and the injection operation are performed together in the same cycle.

MC-Fastpack PR solid and **MC-AnchorSolid E820** can be directly injected into the cracks or joints requiring treatment. Components can become ready for use or operation within just a short time.

Over-banding system



Over-banding products for component surfaces

Over-banding serves to protect cracked components against the penetration of substances.

Over-banding and partial reprofiling can be performed with minimum effort fast and cleanly when using **MC-Fastpack PR solid**. Its good stability also ensures that it can be readily used on vertical and overhead surfaces. With its short curing times, this speciality adhesive becomes 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 adhesive **MC-AnchorSolid E820** is suited to a wide range of typical construction-related applications. With a high strength value it creates strong bonds between different building materials. It is also ideal for attaching tensile adhesion strength testing devices (pull-off heads or stubs) as well as for adhesive-bonding of component assemblies.

MC-Fastpack system components

Reactive resins in double-chamber cartridges

	Rigid injection compounds	Water stoppage	Sealing of cavities and joints	Over-banding	Bonding
MC-Fastpack PR solid	● ¹⁾		●	●	●
MC-AnchorSolid E820	● ¹⁾		●	●	●
MC-Fastpack 1264 compact	● ²⁾			●	●
MC-Fastpack 2300 top		● ³⁾	●		
MC-Fastpack 2700	● ²⁾	● ²⁾	●		
MC-Fastpack Injekt LE	● ¹⁾	● ¹⁾	●		

¹⁾ > 1,0 mm ²⁾ > 0,3 mm ³⁾ > 0,2 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

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 Protective gloves and safety goggles
- 4 Setting tool for MC-Hammer Packer LP 12
- 5 Operation manual
- 6 MC-Fastpack Power-Tool case



Bonding, patching, injecting – reinforced concrete, masonry

MC-Fastpack PR solid

Product properties

- Thixotropic specialty polyurethane resin
- Trowelable, including for overhead application
- Moisture-tolerant
- Fast-curing
- Good adhesion on mineral and metal substrates
- Viscoelastic solid



Areas of application

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

Bonding, anchoring, injecting – reinforced concrete, masonry

MC-AnchorSolid E820

Product properties

- Thixotropic specialty epoxy resin
- Moisture-tolerant
- Suitable for overhead application
- Low working temperature
- Good adhesion on mineral and metal substrates
- Fast-curing
- High tensile and compressive strength
- European technical approval



Areas of application

- Bonding of threaded rods and reinforcing steel bars in crack-free concrete
- Bonding of threaded rods and reinforcing steel bar in cracked concrete, natural stone and masonry in combination with MC-Fastpack 1264 compact
- Bonding of mineral and metallic building materials and also certain plastics
- Closing of joints
- Over-banding of structural stress cracks
- Sealing / levelling of voids, apertures and spalled areas

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, subsoil

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, subsoil

MC-Fastpack 2700

Product properties

- Low-viscosity polyurethane resin
- Highly reactive
- Expanding reaction in contact with water
- Fast curing
- Viscoelastic solid



Areas of application

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

Water stoppage and cavity filling – reinforced concrete, masonry, subsoil

MC-Fastpack Injekt LE

Product properties

- Low-viscosity polyurethane resin
- Highly reactive
- Rapidly expanding
- Very fast curing
- Viscoelastic solid
- 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
- Waterproofing of hydraulic structures, sewerage structures and structures in contact with groundwater

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 (separately available).



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.

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 15).

Technical Data

Bore	Ø 50 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	Ø 7 mm ID
Max. injection	approx. 30 bar
Material	Plastics



Crack injection with **MC-Fastpack 1264 compact** via **MC-Surfacepacker** into a dry component



Crack injection with **MC-Fastpack 2300 top** via **MC-Hammer Packer LP 12** into a damp component



Void injection with **MC-Fastpack Injekt LE** via
MC-Hammer Packer LP 12 against flowing water



Wide area injection with **MC-Fastpack 2700** via
MC-Hammer Packer LP 12 into a damp component



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
- Filling
- Over-banding
- Bonding

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