



MC-Fastpack Power-Tool

Manual



Content

Page

The MC-Fastpack Power-Tool and its components 4–5

Application areas 6–7

Application and products

Force-fitting binding and sealing. 8

Flexible sealing. 9

Rigid sealing 10

Force-fitting gluing, sealing
and levelling 11

Instruction

Preparation 12

Operation. 13

Changing the cartridge sleeve. 14–15

Packer systems 16–17

Technical Information

Safety advices 18

Regulations and standards applied 19

MC-Fastpack Power-Tool: compact, fast and safe

The MC-Fastpack Power-Tool offers an innovative solution for injection of cracks and small voids using low pressure. Especially in confined space, difficult to access areas and small injection measures, the compact injection device MC-Fastpack Power-Tool offers numerous advantages.

- Easy and safe handling
- Professional 2-component application
- Adjustable low-pressure system
- Precise dosing
- Maintenance-free, low-wear system
- Protection of people and environment through closed cartridge system (no resin contact, no solvents required)



The MC-Fastpack Power-Tool in a practical carrying case

The MC-Fastpack Power-Tool comes in a robust carrying case, containing all components required for use on site.



List of components

1. MC-Fastpack Power-Tool (discharger^[A] with pre-mounted cartridge sleeve^[B] for cartridges with a mixing ratio of 1:1 and 2:1)
2. Interchange cartridge sleeve for cartridges with a mixing ratio of 4:1, incl. accessories
3. Mounting tool for the MC-Hammerpacker LP
4. Full vision protective goggles
5. Nitrile protective gloves
6. MC-Fastpack Power-Tool carrying case

Technical properties

Characteristic	Unit	Value
Mixing ratio	parts by volume	1:1/2:1 and 4:1
Air requirement	l/min	approx. 3
Max. inlet pressure	bar / psi	8 / 120
Max. operating pressure	bar / psi	6 / 87
Continuous sound pressure	dB	< 70
Weight	kg	2.2
Max. cartridge content	ml	400

The MC-Fastpack Power-Tool – versatile application

The MC-Fastpack system is for variable usage. Injection works can be performed in the safe low-pressure area (max. injection pressure of 6 bar / 87 psi). Also diverse gluing and concrete repair works can be done with the MC-Fastpack Power-Tool.



Thanks to its compactness and its easy handling, the MC-Fastpack Power-Tool can be used where traditional injection technologies are impracticable or are not cost-effective.

Application areas:

- Difficult to reach areas
- Confined spaces
- Small injection measures
- Multiple injection works on one jobsite with large distances to each other

For application with the MC-Fastpack Power-Tool the 2-component injection material is supplied in ready-to-use double-chamber cartridges. By pushing the trigger the resin components are pressed into the Quadro static mixer, where both components are mixed homogenously. Mixing errors are excluded.

Working steps such as preparation and cleaning of the injection pump with oil and solvents become obsolete. This reduces error sources and ensures that the injection resin is applied with optimum properties.



Force-fitting binding and sealing

MC-Fastpack 1264 compact

Product properties

- Low-viscosity, epoxy-based duromer resin
- Moisture compatible
- High penetration activity
- Rapid strength development
- As well hardening under dynamic loads
- High compressive and tensile strength



Application areas

- Rigid filling of cracks, joints and voids in building construction, civil and underground engineering under dry and wet conditions
- REACh-assessed exposure scenarios: periodical inhalation, application

Flexible sealing

MC-Fastpack 2300 plus

Product properties

- Low-viscosity, polyurethane-based elastomer resin
- Accelerated reaction in contact with water with limited volume increase
- Flexible sealing
- High flexibility, low glass transition temperature
- Fulfils the UBA guideline for sealing in contact with potable water
- DIN EN 1504-5 classification: U (D1) W (1) (1/2/3) (6/35)



Application areas

- Flexible sealing of cracks, joints and voids in building construction, civil and underground engineering under dry and water-bearing conditions
- Sealing of potable water structures
- REACh-assessed exposure scenarios: long-term water contact (crack), periodical inhalation, application

Fast rigid sealing

MC-Fastpack 2700

Product properties

- Low-viscosity, polyurethane-based duromer resin
- Short reaction time
- Visco-plastic hard when fully cured
- Limited foaming when reactive resin is mixed with water
- Fulfils KTW test groups D1 and D2 and fulfils the requirements of the DIBt bulletin "Evaluation and effects of construction products on soil and ground water" (edition 11/2000)



Application areas

- Sealing and stabilising of cracks and cavities in loose rock, mountain rock and similar areas
- Sealing of sheet piling, diaphragm walls and the like on ground water levels
- Sealing of leakages in potable water structures, pipe sockets, etc.
- REACh-assessed exposure scenarios: long-term water contact periodical inhalation, application

Force-fitting gluing, sealing and levelling

MC-Fastpack EP solid

Product properties

- Stiff epoxy-based duromer resin
- Moisture compatible
- Putty consistency
- Good adhesion on mineral and metallic surfaces
- Force-fitting gluing
- Rapid hardening



Application areas

- Gluing of concrete and steel (e.g. anchors, mounting parts)
- Gluing of adhesion packers (e.g. MC-Surfacepacker LP) for injection works
- Sealing of static cracks and leakages during injection works
- Closing of cracks and flat joints
- Closing / levelling of bore holes, pores and small cavities
- Small-area coating works
- REACh-assessed exposure scenarios: periodical water contact, periodical inhalation, application

Preparation



1. Unscrew cap nut and remove the plug from the cartridge.



2. Place the static mixer and fix it with the cap nut.

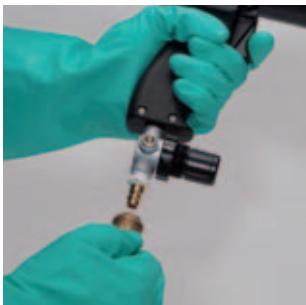


3. Check cartridge sleeve for the correct mixing ratio.



4. Insert cartridge into the MC-Fastpack Power-Tool.

Operation



1. Connect MC-Fastpack Power- Tool with air compressor.



2. Adjust injection pressure at the pressure limiting valve.



3. Insert static mixer into the packer nozzle with light pressure. Inject.



4. Push the pressure release button before changing packer or cartridge.

Changing the cartridge sleeve



The MC-Fastpack Power-Tool is pre-set with the cartridge sleeve for cartridges with mixing ratio 1:1 and 2:1.

To use cartridges with a mixing ratio of 4:1, a second cartridge sleeve is available in the carrying case (incl. accessories).

Before changing the cartridge sleeve, it is absolutely necessary to change the plungers (see page 15).



1. Loosen and remove the cartridge sleeve by pressing the clips together.



2. Loosen both screws and remove plungers.



3. According to the required cartridge sleeve, use the matching plungers and tighten the screws.



4. Insert the required cartridge sleeve and press in until the holder clips lock.

Injection of water-bearing cracks



MC-Hammerpacker LP

Product properties

The packers are equipped with a quick-release coupling. The inner diameter is sized, that the end piece of the Quadro mixer from the double-chamber cartridge can be inserted into the packers by light pressure. While injecting, press continuously to hold the connection firmly (see page 13). In order to place the MC-Hammerpacker LP bore channels with a diameter of 14 mm are to be drilled. These are usually set at an angle of about 45° and alternately so that the crack is met in the centre section of the construction element. The distance of the bore holes / packers depends on the construction element thickness. When hammering the packer into the bore hole, the head nozzle must be protected by a mounting tool. After injection, the packer is cut off flush to the surface.

Technical Data

Dimensions	Ø 14 mm x 95 mm
Valve	Integrated, self-closing
Head nozzle	Quick-release coupling
Max. injection pressure	Approx. 50 bar (735 psi)
Material	Plastic



Injection of dry cracks



MC-Surfacepacker LP

Product properties

MC-Surfacepacker LP are glued directly onto the crack (e.g. MC-Fastpack EP solid). Depending on the task, the crack path and the location of the packers have to be completely covered with the sealing material (e.g. MC-Fastpack EP solid). The distance of the adhesive packers depends on the construction element thickness.

The packers are equipped with a slide valve and a quick-release coupling. The inner diameter is sized, that the end piece of the Quadro mixer can be inserted into the packers by light pressure (see page 13).

Technical Data

Adherend	Ø 50 mm
Valve	Slide valve
Head nozzle	Quick-release coupling
Max. injection pressure	Approx. 30 bar (435 psi)
Material	Plastic



Safety instructions

Carefully read through the MC-Fastpack Power-Tool Instruction Manual. The Instruction Manual is inside the carrying case. For safe and reliable operation, it is essential for users to understand and follow the safety instructions provided in the Instruction Manual.

The MC-Fastpack Power-Tool is marked with the CE symbol in compliance with the applicable European directives. Do not use the MC-Fastpack Power-Tool until you have read and understood the operating procedure and the instructions contained in the Instruction Manual. The MC-Fastpack Power-Tool operates under pressure.

Failure to follow these instructions can lead to inadvertent discharge of injection material or adhesive at high pressure and may result in serious personal injury to the user or bystanders and/ or property damage.

Modifications or changes to the MC-Fastpack Power-Tool by persons not authorized by the manufacturer and any failure to comply with the safety instructions given in the Instruction Manual are dangerous and can lead to accidents with severe injuries and / or property damage.

The MC-Fastpack Power-Tool has been developed for mixing and applying 2-component injection and adhesive materials of different formulas (double-chamber cartridges of MC-Bauchemie).

Any other or additional applications shall be considered as non-conforming, i.e. not conforming to the intended use. The intended use also includes compliance with the instructions in the Instruction Manual as a basic requirement.

Protective equipment must be worn. The risk and safety advices of the used reactive resins must also be observed.

Regulations and standards applied

2006/42/EC:	Machine guideline
97/23/EG:	Compressed air guideline
ISO 8573-1:	Compressed air - grades

Original instruction manual is written in German

MC-Fastpack Power-Tool

- Ready-to-use
- Easy and comfortable to handle
- Safe processing of 2-component reactive resins

MC-Bauchemie Müller GmbH & Co. KG
Protection Technologies

Am Kruppwald 1-8
46238 Bottrop
Germany

Phone: +49 (0) 2041 101-10
Fax: +49 (0) 2041 101-188

protection-technologies@mc-bauchemie.com
www.mc-bauchemie.com

