

MC-Fastpack 2033

Fast-foaming Injection Resin

Product properties

- Low-viscosity, polyurethane-based elastomer resin
- Hand application by the MC-Fastpack Power-Tool
- Stops pressurised water
- Fast reaction time with high increase in volume
- Fulfils UBA-guideline for repair systems in contact with drinking water

Areas of application

- Sealing of heavy water-bearing cracks before secondary sealing with MC-Elastomer resins or permanent caulking system
- Stops water leakages
- Filling of voids
- Sealing of potable water structures in combination with MC-elastomer resins
- REACh-assessed exposure scenarios: long-term water contact (crack), periodical inhalation, application

Application

Preparation

Prior to injection the structure or the leakage has to be inspected according to state of the art standards and technical regulations and an injection concept has to be planned.

Components

The MC-Fastpack 2033 consists of two components, the component A and the component B. Both components are supplied in a dual chamber cartridge. The volume ratio of the cartridge compartment corresponds to the mixing ratio of 1 : 1. The mixing takes place in the static mixer of the cartridge system.

Injection

The injection is done by a pneumatically operated discharging device for dual-chamber cartridges, which produce a sufficient discharging pressure (MC-Fastpack Power-Tool). For the injection MC-Hammerpacker LP are recommended.

The processing time is affected by the temperature of the resin and the environment. If the injection work is interrupted for longer than the workability time of MC-Fastpack 2033, the static mixer should be replaced by a new one. Opened cartridges should be closed with the original sealing cap and used as soon as possible, but maximum within 7 days.

At temperatures below + 6 ° C work has to be stopped.

Machine cleaning

By processing the MC-Fastpack 2033 within cartridges, generally no contamination of the discharging device will occur. Should pollutions appear, all tools can be cleaned within the processing time with MC-Verdünnung PU. Hardened material can only be re-moved mechanically.



Technical Data for MC-Fastpack 2033

Characteristic	Unit	Value*	Comments
Mixing ratio	p.b.v.	1 : 1	component A : component B
Density	kg/dm ³	approx. 1.13	DIN EN ISO 2811-1
Viscosity	mPa·s	approx. 400	DIN EN ISO 3219
Volume expansion with 10 % water without counter pressure	%	approx. 3,700	
Application time	hours	approx. 35	
Application temperature	°C	+ 6 to + 35 + 6 to + 35	air and substrate temperature material temperature

* All technical values relate to 20 °C and 50 % relative humidity.

Product Characteristics for MC-Fastpack 2033

Cleaning agent	MC-Verdünnung PU Water or water-based cleaners must not be used under any circumstances.
Colour	light brown
Delivery	400 ml dual-chamber cartridge with a volume ratio of 1 : 1 8 cartridges with 10 static mixers per box
Storage	When stored in original sealed cartridges at temperatures between + 8 °C and + 25 °C in dry conditions the shelf life is at least 1 year. The same requirements apply to the transport.
Disposal	Cartridges must be emptied completely.

Safety Advice

Please take notice of the safety information and advice given on the packaging labels and safety data sheets. GISCODE: PU40

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Edition 08/11. Some technical changes have been made to this print medium. Older editions are invalid and may not be used anymore. If a technically revised new edition is issued, this edition becomes invalid.



MC-Fastpack 2300 plus

Flexibly Water Proofing Injection Resin

Product properties

- Low-viscosity, polyurethane-based elastomer resin
- Hand application by the MC-Fastpack cartridge system
- Accelerated reaction in contact with water with limited increase in volume
- Flexibly water proofing
- Very high flexibility also at low temperatures
- Fulfills UBA guideline for sealing in contact with potable water
- DIN EN 1504-5 classification: U (D1) W (1) (1/2/3) (6/35)

Areas of application

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

Application

Preparation

Prior to injection the structure has to be inspected according to state of the art and technical regulations and an injection concept has to be set up. Packers with a sufficient sized nozzle and a low opening pressure are required. We recommend the MC-Hammerpacker LP a bore packer with an integrated valve. As an alternative the MC-Surfacepacker LP can be used. These adhesion packers can be bonded on dry to slightly damp surfaces with the ready-to-use adhesive MC-DUR Kleber EP 34. The packer distribution is subject to the injection concept.

Components

The MC-Fastpack 2300 plus consists of two components (A and B). Both components are supplied in a ready-to-use double chamber cartridge. The volume ratio of the cartridge corresponds to the mixing ratio of 1:1. The mixing takes place in the static mixer of the cartridge system.

Injection

The injection is done by a pneumatically operated discharging device for double chamber cartridges, which produces a sufficient discharging pressure (MC-Fastpack Power-Tool).

Prior to injection a static mixer is fixed on the

double chamber cartridge and the cartridge is inserted into the MC-Fastpack Power-Tool.

The tip of the static mixer fits exactly into the opening of the MC-Hammerpacker LP and the MC-Surfacepacker LP. During the injection keep the tip firmly inserted into the packer.

Beware: Before disconnecting the mixer from the packer always press the red pressure relieve button on the MC-Fastpack Power-Tool!

The application time of the resin is practically unlimited. If the injection work is interrupted for longer than the workability time of MC-Fastpack 2300 plus, the static mixer can be replaced by a new one. Opened cartridges should be closed with the original sealing cap and used as soon as possible, but latest within 7 days.

Structures with a core temperature of less than + 6 °C may not be injected.

Machine cleaning

Thanks to the cartridge based system the usual application does not lead to any contamination of tools. Should anyhow some equipment get contaminated with resin, it can be cleaned during workability time with MC-Verdünnung PU. Hardened material can only be removed mechanically.



Technical Data for MC-Fastpack 2300 plus

Characteristic	Unit	Value*	Comments
Mixing ratio	p.b.v.	1 : 1	component A : component B
Density	kg/dm ³	approx. 1.04	DIN EN ISO 2811-1
Viscosity	mPa·s	approx. 95	DIN EN ISO 3219
Maximum expansion	%	approx. 145	DIN 53 455
Expansion ratio with water	-	approx. 1,04	DIN EN 14406
Shore a hardness		35 - 40	ISO 868
Reaction time	minutes	approx. 35	
Application temperature	°C	+ 6 to + 40	air, substrate and material temperature
Glass transition temperature	°C	approx. - 70	DIN EN 12614

* All technical values relate to 20 °C and 50 % relative humidity.

Product Characteristics for MC-Fastpack 2300 plus

Cleaning agent	MC-Verdünnung PU Water or water-based cleaners must not be used under any circumstances.
Colour	light brown
Delivery	400 ml double chamber cartridge with a volume ratio of 1 : 1 8 cartridges with 10 static mixers per box.
Storage	When stored in original sealed cartridges at temperatures between + 5 °C and + 25 °C in dry conditions the shelf life is at least 1 year. The same requirements apply to the transport.
Disposal	Cartridges must be emptied completely.

Safety Advice

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MC-Fastpack 2700

Rigid Water Proofing Injection Resin

Product properties

- Low-viscous, polyurethane-based duromer resin
- Manual application with the MC-Fastpack °Power-Tool
- Very short reaction time
- Viscoplastic and hard when fully reacted
- Limited foaming when mixed with water
- Fulfils KTW requirements of test groups D1 and D2, confirming compatibility with potable water
- Fulfils requirements of DIBt bulletin "Evaluation and effects of construction products on soil and ground water" (11/2000)

Areas of application

- Sealing and strengthening of cracks and cavities in loose rock, mountain rock and similar areas
- Sealing of sheet pilings, diaphragm walls and the like on ground water level
- Sealing of leakages in drinking water structures, pipe sockets etc.
- REACh-assesed exposure scenarios: long-term water-contact, periodical inhalation, application

Application

Preparation

Before injection the structure, the leaking areas, respectively, have to be inspected according to technical standards and regulations and an injection concept is to be prepared.

Components

MC-Fastpack 2700 consists of two components (A and B). Both components are supplied in a double chamber cartridge. The volume ratio of the cartridge corresponds to the mixing ratio of 1:1 parts by volume. Mixing takes place in the static mixer of the cartridge system. Reaction times depend on temperature.

Injection

Injection is carried out by a pneumatically operated discharger for double chamber cartridges which produces sufficient discharging pressure (MC-Fastpack Power-Tool).

When curing in contact with water MC-Fastpack 2700 foams up to a limited extent. For injection MC-Hammerpacker LP 12 are recommended.

The processing time is affected by the temperature of the resin and the environment. If injection is interrupted for longer than the processing time permits, the static mixer is to be replaced by a new one. Opened cartridges must be closed with the original sealing cap and used as soon as possible, but maximum within 7 days.

Work with MC-Fastpack 2700 must be stopped if the temperature of the structure drops below + 6 °C.

Machine cleaning

Thanks to the cartridge based system the usual application does not lead to any contamination of tools. Should anyhow some equipment get contaminated with resin it can be cleaned within processing time with MC-Verdünnung PU. Cured material can only be removed mechanically.



Technical Data for MC-Fastpack 2700

Characteristic	Unit	Value*	Comments
Mixing ratio	p.b.v.	1 : 1	Component A : component B
Density	kg/dm ³	approx. 1.13	DIN EN ISO 2811-1
Viscosity	mPa·s	approx. 200 ± 50	DIN EN ISO 3219
Compressive strength	MPa	> 75	DIN EN 196 T1
Shore A-hardness		approx. 90	ISO 868
Volume increase in contact with water		1 - 10 times	Depending on counterpressure
Reaction time	seconds	approx. 30	
Application temperature	°C	+ 6 to + 35	Air, substrate and material temperature

* All technical values relate to 20 °C and 50 % relative humidity.

Product Characteristics for MC-Fastpack 2700

Cleaning agent	MC-Verdünnung PU Under no circumstances, water or water-based cleaning agents should be used.
Colour	Brown
Delivery	400 ml double chamber cartridge with a volume ratio of 1 : 1 8 cartridges with 10 static mixers per box
Storage	When stored in original sealed cartridges at temperatures between + 5 °C and + 25 °C in dry conditions the shelf life is at least 1 year. The same applies to the transport.
Disposal	Cartridges must be emptied completely.

Safety Advice

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MC-Fastpack 1264 compact

Force Fitting And Water Proofing Injection Resin

Product properties

- Low-viscosity, epoxy-based duromer resin
- Hand application by the MC-Fastpack cartridge system
- Moisture compatible
- High penetration activity
- Fast hardening
- As well hardening under dynamic conditions
- High compressive and tensile strength

Areas of application

- Rigid filling by injection or deep penetration of cracks, joints and voids in building construction, civil and underground engineering under dry and wet conditions
- REACh rated exposure scenarios: periodical inhalation, application

Application

Preparation

Prior to injection the structure has to be inspected according to state of the art and technical regulations and an injection concept has to be set up. Packers with a sufficient sized nozzle and a low opening pressure are required. We recommend the MC-Surfacepacker LP an adhesion packer with a slide closure. These adhesion packers can be bonded on dry to slightly damp surfaces with the ready-to-use adhesive MC-DUR Kleber EP 34. As an alternative the MC-Hammer-packer LP can be used. The packer distribution is subject to the injection concept.

Components

The MC-Fastpack 1264 compact consists of two components (A and B). Both components are supplied in a double chamber cartridge. The volume ratio of the cartridge corresponds to the mixing ratio of 4:1. The mixing takes place in the static mixer of the cartridge system.

Injection

The injection is done by a pneumatically operated discharging device for double chamber cartridges, which produces a sufficient discharging pressure (MC Fastpack Power-Tool).

Prior to injection a static mixer is fixed on the

double chamber cartridge and the cartridge is inserted into the MC-Fastpack Power-Tool.

The tip of the static mixer fits exactly into the opening of the MC-Surfacepacker LP and the MC-Hammerpacker LP. During the injection keep the tip firmly inserted into the packer.

Beware: Before disconnecting the mixer from the packer always press the red pressure relieve button on the MC-Fastpack Power-Tool!

The application time of the resin is practically unlimited. If the injection work is interrupted for longer than the workability time of MC-Fastpack 1264 compact, the static mixer can be replaced by a new one. Opened cartridges should be closed with the original sealing cap and used as soon as possible, but latest within 7 days.

Structures with a core temperature of less than + 8 °C may not be injected.

Machine cleaning

Thanks to the cartridge based system the usual application does not lead to any contamination of tools. Should anyhow some equipment get contaminated with resin, it can be cleaned during workability time with MC-Verdünnung EP. Hardened material can only be removed mechanically.



Technical Data for MC-Fastpack 1264 compact

Characteristic	Unit	Value*	Comments
Mixing ratio	p.b.v.	4 : 1	component A : component B
Density	kg/dm ³	approx. 1.08	DIN EN ISO 2811-1
Viscosity	mPa*s	approx. 310	DIN EN ISO 3219
Compressive strength	MPa	approx. 60	DIN EN ISO 604
Tensile strength	MPa	approx. 45.7	DIN 53455
Elongation of break	%	approx. 6.1	DIN 53455
Volume shrinkage	%	approx. 4.5	DIN EN 12617-2
E-modulus	MPa	approx. 2,600	DIN EN ISO 178
Reaction time	Minutes	approx. 40	
Minimum application temperature	°C	+ 8 to + 30	air, substrate and material temperature

* All technical values relate to 20 °C and 50 % relative humidity.

Product Characteristics for MC-Fastpack 1264 compact

Cleaning agent	MC-Verdünnung EP Water or water-based cleaners must not be used under any circumstances.
Colour	transparent
Delivery	400 ml double chamber cartridge with a volume ratio of 4 : 1 8 cartridges with 10 static mixers per box.
Storage	When stored in original sealed cartridges at temperatures between + 10 °C and + 25 °C in dry conditions the shelf life is at least 1 year. The same requirements apply to the transport.
Disposal	Cartridges must be emptied completely.

Safety Advice

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