



MC-Injekt 2133 flex

Hydrophobic, water-reactive, closed-cell foaming elastomer resin for durably sealing injection measures

Product Properties

- One-component, hydrophobic elastomer resin based on MDI
- Very good injectivity due to surf-effect
- Fast reaction due to good hydro-activity
- Highly flexible, expandable and compressible
- Permanently waterproof
- Free from phthalate plasticizers and solvents

Areas of Application

- Durably sealing injection of water-bearing cracks and voids from approx. 0.3 to 5.0 mm in concrete and masonry
- Flexible sealing and filling of voids in structures in civil engineering and engineering construction
- Sealing of rocks, building ground and structures in building pit closures, in tunnel- and special underground constructions
- Large-scale sealing of contact areas between waterproofing foil and structure
- REACh-assessed exposure: long-term water-contact, periodical inhalation, application

Application

Product description

MC-Injekt 2133 flex is a one-component, hydrophobic injection resin which reacts in contact with water or moisture to a flexible and waterproof foam body. It may be injected into concrete and masonry as well as into rocks and building ground both with and without exposure to water.

Preparative measures

MC-Injekt 2133 flex requires water to react. Prior to any injection measure the structures must be pre-injected with water. The injectivity of the structure, rocks or building ground is thereby checked at the same time. An injection concept is to be defined.

Injection packers

Placing of suitable packers (e.g. MC-Injektionspacker DS 14) with adequate weir opening (≥ 1.5 mm).

Injection

Injection is carried out in 3 work steps. In the first step the crack is rinsed with water. Important: you must not use the same injection pump that will be used for resin injection.

Afterwards MC-Injekt 2133 flex is injected using a 1-component injection pump (e.g. MC-I 510) with sufficient pressure and discharge capacity. Subsequent injection is carried out with water.

- Step 1: pre-injection with water
- Step 2: injection of MC-Injekt 2133 flex
- Step 3: post-injection with water

Injection of MC-Injekt 2133 flex must be stopped if the temperature of the ground/structure drops below + 6 °C.

Cleaning of equipment

In case of longer interruptions of work the injection pump must be flushed thoroughly with MC-Verdünnung PU to prevent foaming in contact with humidity. We recommend to maintain the pump with oil afterwards. For any further details please see the user manual of the injection pump.

Partially or completely cured material can only be removed mechanically.



Technical Data for MC-Injekt 2133 flex

Characteristic	Unit	Value*	Comments
Density	kg/dm ³	approx. 1.03	DIN 53 479
Viscosity	mPa·s	approx. 800	DIN EN ISO 3219
Viscosity on water film	mPa·s	approx. 260	DIN EN ISO 3219
Free elongation	%	66	DIN 53455
Adhesive tensile strength	N/mm ²	approx. 0.14	DIN EN 12618-1 concrete dry/damp
Foaming factor	-	10 2 - 4	free foaming limited foaming in crack
Start/end of foaming	seconds	30/180	starts when in contact with water
Minimum water demand	%	1.3	
Application temperature	°C	+6 - +35	air-, material- and substrate temperature

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

Product Characteristics for MC-Injekt 2133 flex

Colour	yellow
Delivery	10 l canister
Cleaning agent	MC-Verdünnung PU Water or water-based cleaning agents must not be used under any circumstances.
Storage	Can be stored in original sealed packages at the temperatures between + 5 °C and + 25 °C in dry conditions for at least 1 year. The same requirements are valid for transport.
Disposal	Packs must be emptied completely.

Safety Advice

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

Note: The information on this data sheet based on our experiences and correct to the best of our knowledge. It is, however, not binding. It has to be adjusted to the individual structure, application purpose and especially to local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. This provided we are liable for the correctness of this data within the scope of our terms and conditions of sale-delivery-and-service. Recommendation of our employees which differ from the data contained in our information sheets are only binding if given in written form. The accepted engineering rules must be observed at all times.

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