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MC-Injekt 2088

Foaming injection resin for temporary sealing measures.

PRODUCT PROPERTIES:

- One-component, polyurethane-based injection foam.
- Expands when in contact with water.
- Adjustable reaction time.
- Excellent bonding also to wet crack surfaces.
- Long pot life.
- Non shrinking.
- REACH-assessed exposure scenarios: periodical inhalation, application.

AREAS OF APPLICATION:

- Injection of cracks and cavities, injection against flowing water.
- Injection of tunnels and deep constructions.
- Injection on drilled piles, HDI-, sheet pile- and slotted-walls.

APPLICATION NOTES:

- **Preparation:** Before injection the structure's voids and cracks have to be inspected according to technical standards and regulations, and an injection concept is to be planed.
- **Mixing: MC-Injekt 2088** consists of a one component injection resin, which is adjusted with the catalyst MC-Injekt 2088 CAT to the required reaction time.

Catalyst quantity	Reaction time (min.)
0.33 %	50
1.67 %	11
3.33 %	6
5.00 %	5
6.67 %	4
10.00 %	3.5

- Reaction time depends on concentration of the catalyst (at 23 °C and 75 % rel. humidity).
- The pot life of the mixed components is about 6 - 8 hours provided that there is no contact with water and atmospheric humidity.
- If a skin forms on the top of the mixed material due to humidity, the liquid material underneath the skin can still be used.
- **Injection:**
  - The injection can be executed with the injection pump MC-I 510 (1-component pump).
  - Injection with **MC-Injekt 2088** should be effected in intervals depending on site conditions to allow the foam enough time to react. Within a few minutes further injection requirements can be determined from the visible water penetration developed from the injection pressure.
  - MC-Injekt 2300 top / 2300 rapid or MC-Injekt 2300 NV must follow to permanently seal the crack.
  - Work with **MC-Injekt 2088** must be stopped at temperatures below + 5°C.
- **Machine Cleaning:** Within the pot life all equipment may be cleaned with MC-Verdünnung PU (MC-Thinner PU). Partially or completely cured material can only be removed mechanically.

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TECHNICAL DATA:

Characteristic	Unit	Value	Comments
Mixing ration	p.b.w.	10 : 0.033 - 10 : 1	Component A : MC-Injekt 2088 CAT
Density	kg/dm³	1.15	Mixture
Viscosity	mPa·s	400	DIN EN ISO 3219
Application time	hours	6 - 8	
Application temperature	°C	+ 5 - + 35	Air, substrate and material temperature
Volume expansion with 5 % water without counter pressure	%	1.000 - 2.000	At 20°C and 50 % rel. humidity

** All technical values relate to 21±2 °C and 50 % relative humidity.*

PRODUCT CHARACTERISTICS:

Colour	Brown
Delivery	MC-Injekt 2088: 25 kg and 200 kg pack MC-Injekt 2088 CAT: 2.5 kg and 10 kg pack
Storage	Can be stored in original sealed packs at temperatures between + 5°C and + 35°C in dry conditions for at least 18 months. The same requirements are valid for transport.
Cleaning agent	Within the pot life all equipment may be cleaned with MC-Verdünnung PU (MC-Thinner PU). Partially or completely cured material can only be removed mechanically. Water or water-based cleaning agents must not be used under any circumstances.
Disposal	Packs 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

Note: The information provided here is based on our experience and correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual building projects, to the specific application and to non-standard local conditions. Our data refers to the accepted engineering rules, which have to be observed during application. Given these preconditions we shall be liable for the accuracy of the information given as outlined in our sales and delivery terms and conditions. Recommendations by our employees that deviate from this information are only binding for us if they have been confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be adhered.

Edition **08/2024**. Some technical changes have been made to this print medium. Older editions are invalid and may not be used.