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BF 2210

High-performance, two-component polyurethane injection resin used for structural repair of load-bearing elements such as concrete, brick walls, and weak subsoil.

PRODUCT PROPERTIES:

- Modified polyurethane resin with high durability and flexibility.
- Ideal for application by injection method.
- Adjustable reaction time allows for easier application.
- Displaces water from infiltrated structures.
- Controlled expansion when reacting with water (forms rigid foam).
- Provides reliable waterproofing performance.
- Excellent compressive and tensile strength.

AREAS OF APPLICATION:

- Sealing and strengthening of cracks and voids in structural concrete, load-bearing brick walls, natural stone, etc., in civil, industrial, and hydraulic construction projects.
- Sealing of construction pits.
- Soil, rock, and foundation reinforcement beneath structures.
- Enhancing load-bearing capacity of underground slabs or slabs in contact with soil.
- Sealing and reinforcement of construction joints by increasing load transfer to the subsoil.

APPLICATION ADVICE:

- **Preparation:** Prior to injection, inspect the cracks and defects in the structure following applicable standards and procedures. Prepare a comprehensive execution plan. Use appropriate packers (e.g., MC-Stahlpacker 18/300) and install them in advance. Preliminary injection is recommended before full-scale application.
- **Mixing:**
  - BF 2210 consists of Component A and Component B. The components are mixed thoroughly in the mixing head of a two-component injection pump (recommended length > 20 cm).
  - Pot life depends on ambient temperature and can be extended by cooling the components and the mixed material.
- **Reaction time adjustment:** Setting and reaction time can be tailored to specific project requirements. MC-KAT 27 is an accelerator used to adjust the curing time (dosage up to 1%).
- **Admixture:** MC-Additive ST is used to adjust the foaming rate (recommended dosage: 4–7%). All admixtures must be added to Component A only.
- **Application:**
  - BF 2210 should be applied using a high-pressure, two-component injection pump (e.g., MC-I 710).
  - Recommended packer: MC-Bore Packer LS 18.
  - Do not inject when the substrate or product temperature is below +5°C.
- **Equipment cleaning:**
  - In case of long interruptions or upon completion, clean the pump thoroughly with a suitable cleaning agent, such as MC-Thinner PU or MC-Cleaner ECO.
  - Hardened material on equipment should be removed mechanically (e.g., with a scraper or wire brush).
  - Lubricating oil is recommended to protect the pump after use. Refer to pump manual for more information.

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TECHNICAL DATA:

Characteristics	Unit	Value	Comments
Mixing ratio	By volume	1 : 1	Component A : Component B
Density	Kg/dm³	~ 1.13 (mixture) ~ 1.06 (component A) ~ 1.22 (component B)	DIN EN ISO 2811-1
Viscosity	mPa·s	~300 ± 50	EN ISO 3219
Flexural strength: • 24h • 48h • 10 days	N/mm²	~9.5 ~26.5 ~36.8	DIN ISO 178 / at 2%
Pot life	Minutes	~ 10	ASTM D7487, at 20°C / 50% RH
Application temperature	°C	+ 5 - + 40	Ambient, product, and substrate
Volumetric expansion in contact with water	%	~200 - 1.000	Depends on water pressure
Compressive strength	Mpa	~60	EN ISO 604
Tensile compressive strength	Mpa	~60	EN ISO 527-1

** All technical data determined under lab conditions: 21°C ±2°C and 50% RH.*

PRODUCT CHARACTERISTICS:

Color	Brown
Cleaning Agent	MC-Thinner PU. Do not use water or water-based cleaners under any circumstances.
Shelf-life and Storage	Minimum 18 months when stored in original, unopened containers in dry conditions between +5°C and +35°C.
Packaging	16L/can for each component (A and B).
Disposal	Containers must be completely emptied before disposal.

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 **06/2025**. Some technical changes have been made to this print medium. Older editions are invalid and may not be used.

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