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MC-BetoSolid AS

Two-component Epoxy resin-based adhesive and repair mortar for structural bonding.

PRODUCT PROPERTIES:

- Two component, Epoxy-based, adhesive and repair mortar.
- High adhesion, steady, applicable overhead.
- Water resistant and low-shrinkage.
- Good mechanical and chemical properties.
- Solvent free.

AREAS OF APPLICATION:

- Gluing of concrete units and also of natural stones, fibre cement and ceramic units.
- Gluing of steel, iron, cast iron, PVC (rough surface mechanically!), wood,…
- Repair mortar for broken or damaged concrete units and levelling out of uneven surfaces.
- Filling of cavities.
- Joint repair and filling.

APPLICATION NOTES:

- **Substrate preparation:** The surface has to be clean, rough and dry, hard, solid and free of all loose particles, dust, oil and releasing effective substances.
- **Subsurface testing:** Before gluing with **MC-BetoSolid AS**, the concrete substrate must be tested. An adhesive tensile strength of 1,5 N/mm² is required. Acceptable surface moisture has to be less than 4 %.
- **Mixing:** Before application of **MC-BetoSolid AS** the two components have to be mixed accuratley with slow rotating mixers (approx. 300 - 400 rpm). Both are delivered in prepacked quantities. It is recommen- ded to use anchor shaped agitator. The component B has to be added into component A and mixed until it is homogenous. After mixing the compound must be placed into another clean container and briefly mixed again.
- **Application:** The prossessing of **MC-BetoSolid AS** is carried out with a trowel. The components, which have to be bonded, must be provided each with material. On the first component the adhesive should be applied in thin layer. On the second component **MC-BetoSolid AS** should be applied in thick layer with the desired amount. Spacers are required.
- **Cleaning up:** After every application of **MC-BetoSolid AS** the tools have to be cleaned with a solvent-based cleaning agent.
- **General information**: Coverage, application times, resistance to foot traffic and time until resistance are determined by temperature, site properties and conditions. For the application of epoxy-based materials the temperature of the substrate is of importance. High temperatures shorten and low temperatures ex- tend all indicated times and intervals.
    - Chemical attacks and exposure to light might cause changes in the colour, which usually do not affect the properties and its usabillity.

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TECHNICAL DATA:

Characteristic	Unit	Value	Comments
Density	g/cm³	1.6	Mixture
Mixing ratio	p.b.w.	1 : 1	Component A : Component B
Flexural strength: • 24 hours • 7 days	N/mm²	 > 30 > 35	 Final value
Bond strength (dry concrete): • 24 hours	N/mm²	> 3.5	ASTM D7234-22
Bond strength (steel): • 24 hours	N/mm²	> 6	ASTM D4541-22
Working time	minutes	approx. 30	At 25° C
Application conditions	°C	≥ 8 ≤ 35	Air, substrate and material temperatures
Substrate moisture content		≤ 4	Mineral surface without pore water
Maximum grain size	mm	0.1	
Compressive strength: • 24 hours • 7 days	N/mm²	 > 40 > 60	 Final value
Layer thickness	mm	≥ 1 ≤ 10	Single-layer Single-layer
Consumption	kg/m²	approx. 1.6	Per mm layer thickness

All technical values are laboratory results determined at 21°C ±2°C and 50% relative humidity.

PRODUCT CHARACTERISTICS:

Self-monitoring	EN ISO 9001.
Delivery form	2.5 kg set; 1 pallet (54 buckets per 2.5 kg). 5 kg set; 1 pallet (54 buckets per 5 kg). 10 kg set; 1 pallet (36 buckets per 10 kg). The components are delivered in a concerted mixing ratio.
Colour	Cream.
Shelf-life & Storage	Can be stored in cool and dry conditions for at least 12 months in original unopened packs. Protect from frost.
Packaging disposal	Make sure single-use containers are completely empty.

Safety instructions: Please note the safety information and advice given on the packaging labels and safety data sheets.

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 **07/2025**. Some technical changes have been made to this print medium. Older editions are invalid and may not be used.

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