KÖSTER Betomor Multi A

Technical Data Sheet C 500

Issued: 2016-06-17

- Industry classification “Betomor” registered at the German patent office, Nr. 306 07 698
- Official certification report MPA BAU Hannover – guideline of the German Commission for Reinforced Concrete part 2, table 4.3 and part 4
- Test certificate from the MPA Bremen according to DIN EN 1504-3; 50344-11

Universal filling, levelling and corrosion protection mortar for fast repair of concrete and masonry

CE	**KÖSTER BAUCHEMIE AG Dieselstraße 1-10, 26607 Aurich 13 C 500 EN 1504-3:2005 Product for structural and non structural repair for concrete; Applying mortar by hand (3.1) EN 1504-3: ZA. 1a**
Compressive strength	Class R3
Chloride ion content	≤ 0.05 %
Adhesive bond	≥ 1.6 MPa
Restrained shrinkage / expansion	NPD
Carbonation resistance	NPD
Elastic modulus	≥ 10 GPa
Reaction to fire	Class E

Features

KÖSTER Betomor Multi A is a polymer modified filling and levelling mortar for fast repair of concrete and masonry. KÖSTER Betomor Multi A cures without cracking or shrinking. It’s adhesion to concrete, steel and brick is excellent. It protects steel reinforcement from corrosion without needing additional anti-corrosion coatings.
KÖSTER Betomor Multi A combines
- anti-corrosion coating
- bonding slurry for steel and concrete / masonry
- water proof non-shrink mortar
- concrete finish

in a single product.

Technical Data

Compressive strength (4 h, 20 °C)	> 3 N / mm²
Compressive strength (3 days 20 °C)	> 10 N / mm²
Compressive strength (28 days, 20 °C)	> 30 N / mm²
Flexural strength (3 days, 20 °C)	> 3 N / mm²
Flexural strength (28 days, 20 °C)	> 5 N / mm²
Minimum processing temperature	+ 5 °C
Maximum air temperature	+ 30 °C
Maximum temperature of the structural member	+ 40 °C
Pot life (20 °C)	30 min.

Fields of Application

For filling and levelling of voids (up to 60 mm layer thickness) in concrete, reinforced and un-reinforced concrete without a separate anti-corrosion coating.

Substrate

The surface has to be solid and sound, clean and free of dust as well as loose parts, free of oil and grease. Minimum flexural strength of the cleaned substrate has to be 1.5 N / mm². Steel reinforcement must be cleaned of rust prior to application according to DIN EN ISO 12944 to a level of Sa 2 ½. Neither an additional anti-corrosion coating for the protection of the steel reinforcement nor a bonding slurry have to be applied.

When installing mortars substrate preparation is of vital importance. Pre-wet all mineral substrates before the installation of KÖSTER Betomor Multi A. The surface near pore structure must be saturated, (avoiding standing water and puddles) so that it does not absorb water from the applied mortar. Salt contaminated substrates are to be primed with approximately 200 g / m² of KÖSTER Polysil TG 500.

Application

Mix KÖSTER Betomor Multi A with clean water (4.5 l per 25 kg bag; 2.7 l per 15 kg bucket; 1.0 l per 6 kg bucket) to a smooth lump free mass. Do not add more water than specified. Mixing time is 3 minutes.

Do not prepare more material than can be applied within approx. 15 minutes. If the air temperatures is above + 30 °C or if the temperature of the structural members is above + 40 °C, then add 20 % KÖSTER SB Bonding Emulsion to the mixing water.

The maximum processing time is approx. 30 minutes. KÖSTER Betomor Multi A is applied with a spatula or a trowel in one step. When applying the material overhead, we recommend troweling the material in small portions onto the surface. As soon as the setting begins, the surface can be smoothed with a trowel or float. Layer thickness: 0 to 60 mm.

Consumption

Approx. 1.3 kg/l void

Cleaning

Clean tools immediately after use with water.

Packaging

C 500 015	15 kg bucket
C 500 025	25 kg bucket

Storage

Store the material dry; in originally sealed packages, it can be stored for a minimum of 6 months.

Safety

Wear protective gloves and goggles.

Related products

KÖSTER SB Bonding Emulsion — Prod. code W 710

The information contained in this technical data sheet is based on the results of our research and on our practical experience in the field. All given test data are average values which have been obtained under defined conditions. The proper and thereby effective and successful application of our products is not subject to our control. The installer is responsible for the correct application under consideration of the specific conditions of the construction site and for the final results of the construction process. This may require adjustments to the recommendations given here for standard cases. Specifications made by our employees or representatives which exceed the specifications contained in this technical guideline require written confirmation. The valid standards for testing and installation, technical guidelines, and acknowledged rules of technology have to be adhered to at all times. The warranty can and is therefore only applied to the quality of our products within the scope of our terms and conditions, not however, for their effective and successful application. This guideline has been technically revised; all previous versions are invalid.

KÖSTER BAUCHEMIE AG • Dieselstraße 1-10 • D-26607 Aurich • Tel. 04941/9709-0 • Fax -40 • info@koester.eu • www.koester.eu