



## KÖSTER Betomor Multi A

### Multi-functional filling, levelling, and corrosion protection mortar for the fast repair of concrete and masonry

#### 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. The mortar is waterproof and chloride free. Cures without yellowing or discoloring.

KÖSTER Betomor Multi A combines:

- anti-corrosion coating
  - bonding slurry for steel and concrete / masonry
  - waterproof non-shrink mortar
  - concrete finish
- in a single product.

KÖSTER Betomor Multi A is also characterized by:

- very good adhesion to mineral substrates (except gypsum)
- a stable but creamy and smooth consistency
- high smoothability of the surface
- stable application properties when working overhead applications.

#### Technical Data

Compressive strength (4 h, +20 °C)	> 3 N / mm <sup>2</sup>
Compressive strength (24 h, +20 °C)	> 10 N / mm <sup>2</sup>
Compressive strength (28 days, +20 °C)	> 20 N / mm <sup>2</sup>
	approx. class R2
Flexural strength (24 h, +20 °C)	> 3 N / mm <sup>2</sup>
Flexural strength (28 days, +20 °C)	> 9 N / mm <sup>2</sup>
Bonding strength (28 days, +20 °C)	> 1,5 N / mm <sup>2</sup>
Modulus of Elasticity	> 10000
Color	Cement grey
Largest aggregate size	approx. 0,5 mm
Minimum processing temperature	+ 5 °C
Maximum air temperature	+ 30 °C
Maximum temperature of the structural member	+ 40 °C
Pot life	approx. 20 - 30 Min.
Reaction to fire	Class E

#### Fields of Application

For filling and leveling of voids in very high layer thicknesses on masonry, reinforced and un-reinforced concrete without a separate anti-corrosion coating. Also suitable as a fine plaster on mineral substrates (e.g. lime or lime-cement substrates). Not for processing on plasterboard or gypsum plaster. Application in several layers on vertical surfaces and overhead areas is recommended.

#### Substrate

The surface has to be solid and sound, clean and free of dust, loose parts, oil, and grease. The minimum bonding strength of cleaned concrete substrates should be 1.5 N / mm<sup>2</sup>.

Steel reinforcement must be cleaned of rust prior to the application

according to DIN EN ISO 12944 part 4 to a level of Sa 2 ½. Neither an additional anti-corrosion coating for the protection of the steel reinforcement nor a bonding slurry has 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.

#### Application

Mix KÖSTER Betomor Multi A with clean water (4.5 l per 25 kg bag; 2.7 l per 15 kg bucket) to a smooth, lump-free mass.

Do not add more water than specified. For mixing, use an electrical mixing device. Mixing time is 3 minutes. The desired consistency is reached near the end of the mixing time. Do not prepare more material than can be applied within approx. 15 minutes. 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.

#### Aftertreatment

Curing can be aided by covering the hardened material with polyethylene sheets. This reduces surface shrinkage tension especially when the material has been applied in thick layers.

#### 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 in a dry environment. In originally sealed packages, the material can be stored for a minimum of 12 months.

#### Safety

Wear protective gloves and goggles. Observe all Federal, State, and local safety guidelines when processing the material.

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 application 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.