



# MORTAR FOR NON-STRUCTURAL REPAIRING OF CONCRETE.

## Class R2 in accordance with UNE-EN 1504-3

# BIKREPAR 5000-200ER



### Product description

- One-component gray repair mortar without shrinkage based on cements, fine aggregates of selected granulometry, additives and polymers.

### Characteristics

- Thixotropic mortar with an excellent workability.
- High adhesion to concrete without the use of primer.
- Compensated shrinkage to avoid cracking.
- Fine finishing.
- High waterproofing.
- Applicable up to 5mm thicknesses.
- Paintable after 48 hours \*

### Applications

- Cosmetic repair of concrete surfaces; columns, walls, beams, cornices, precast pieces, edges, etc...
- Surface leveling of concrete structures.
- As a fine plaster on concrete or mortar walls.
- Filling of cracks without movement in the concrete.
- For vertical and horizontal surfaces.
- For indoors and outdoors.
- Complies with the requirements for repair work according to principle 3, method 3.1 "restoration of concrete by application of mortar by hand" and principle 7, method 7.1 "preservation or repair of the passivate by increasing the cladding of the reinforcement" in accordance with Standard UNE- EN 1504-9.

### Precautions

- Check that the product to be used is suitable for the type of support and the type of work that is going to be carried out.
- Always mix the product with the recommended amount of water. Do not remix or add cement, sand or additives.
- The ambient temperature during the application of the product must be between 5° C and 30° C.
- Do not apply in thicknesses greater than the recommended 5mm.
- Protect from the direct action of the sun and wind during the first days.
- Do not apply on surfaces that will be traveled.
- Clean the tools immediately after use. Once the product has hardened, the remains can only be removed using mechanical means.
- Avoid breathing the powder and contact of the mixed product with the skin and the eyes. For more information consult the applicable Safety Data Sheet.

### Standards

CE marking of the product as per the European Rules for construction products.

<b>CE</b>	
Morteros y Revocos BIKAIN, S.A. B/Aldebarrena, nº 18 48212 (Mañaria)-Bizkaia 21 Nº DdP : MRH2	
EN 1504-3 <b>BIKREPAR 5000-200ER</b> Polymer modified cementitious mortar (PCC) for non-structural concrete repair. Class R2	
<b>Compressive strength:</b>	≥ 15 MPa
<b>Chloride content:</b>	≤ 0,05%
<b>Adhesion:</b>	≥ 0,8 MPa
<b>Capillary absorption:</b>	≤ 0,5 kg/m <sup>2</sup> .min <sup>0,5</sup>
<b>Thermal compatibility: Part 1:</b>	≥ 0,8 MPa
<b>Dangerous substances:</b>	According to section 5.4
<b>Reaction against fire:</b>	Class A1

### Other technical characteristics

- **Appearance:**..... Grey powder
- **Grain size:**.....0-0,3 mm
- **Paste shelf life (at 20°C):**.....  
.....30 minutes (*depending on the weather conditions*).
- **Bulk density of fresh mortar (UNE-EN 1015-6):**.....  
..... 1,7 ± 0,1(gr/cm<sup>3</sup>)
- **% water :**..... aprox 19-20%
- **Mechanical strengths:**

	7 days	28 days
<b>Flexural</b>	≥ 3 MPa	≥ 5 MPa
<b>Compression</b>	≥ 10 MPa	≥ 15 MPa

- **Theoretical yield:**.....1,4 kg/m<sup>2</sup> y mm de espesor \*\*.
- **Custom tariff:**..... 3824.50.90.00

\* *The drying time depends on the thickness of the applied layer and the environmental conditions of the place of application.*

\*\* *The yield is theoretical and depends on the roughness of the substrate and the application technique.*

## Usage instructions

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### Substrate preparation

- The substrates must be firm, clean and free of loose particles, oils, grease, dust, traces of release agent, paints, surface grouts, etc.
- The temperature of the substrate must be between 5°C and 30°C.
- It is advisable to moisten the support prior to the application of the mortar (without puddling). Start applying the mortar when the surface takes on a matte appearance.
- Any remaining weak or deteriorated material, plasters, plaster splashes, rust stains and, in general, any other contaminating substance must be removed.

### Mixing and product application

- Mix approximately 5,0 liters of water per 25 kg bag of mortar in a clean container, preferably by mechanical methods (for example a low speed electric mixer).
- Knead for 2-3 min until obtaining a doughy and homogeneous consistency, without lumps.
- Let it rest for two minutes and apply the product with a trowel.
- Finishing can be done with a float or trowel once setting has begun.
- The application time is about 30 min.
- The maximum application thickness is 5mm.

### Curing

- Like any cementitious mortar, this product must be protected from early dehydration due to the action of the wind, direct sun, high temperature of the substrate, etc. In any case, it is essential to cure the product during the first 24 hours using the usual protection methods, such as wet burlap, polyethylene sheets or a suitable curing product.
- In cold weather, the repaired surface must be protected from frost.

## Supply

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- In 25 kg paper sacks. Palletized in 60 sacks/pallet (1500 Kg).
- The supply will follow the General Terms of the Contract that is in force

## Storage

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- Storing in sacks guarantees that the characteristics of the product are maintained intact for 1 year from the manufacturing date, as long as they are kept in a location that is under cover and dry.

## Customer / technical service

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- In case of doubt regarding the selection, use or application of the products, first consult with our Customer/Technical Service Department.

## Remarks

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- *Our technical advice, whether the advice is provided verbally or via tests, is provided according to the best of our knowledge but shall be considered only as a recommendation WITHOUT OBLIGATION. Since we are not involved in the execution of the works, the information is provided for general purposes and is not legally binding for BIKAIN.*
- *The technical sheet cannot include all the applications and factors involved with using a material. Therefore, regarding installations not described in this sheet, we recommend consulting without technical department or carrying out a preliminary test to check the suitability of said application.*
- *The usage instructions are drafted based on our tests and knowledge and do not relieve the consumer from examining or checking the products are suitable for use. Therefore prior to using the product, whomever is going to use it must determine if it is suitable or not for the intended use, since he or she will assume any responsibility that may be derived from its use. The responsibility of BIKAIN shall be limited to the value of the used merchandise.*
- *BIKAIN, a registered company in accordance with Standard UNE-EN-ISO 9001 regarding quality systems, guarantees that its products have been controlled by its quality laboratory in accordance with the characteristics described in the Technical Sheets*

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