



FLOOR SCREED MORTAR

BIKAUT 8200 (C12 / C16)

Product description

- Premixed dry mortar based on cement, limestone sand with a selected grain size, fibres and chemical additives.
- This mortar can be manufactured in several strength classes:
 BIKAUT 8200 C12 → CT-C12-F3
 BIKAUT 8200 C16 → CT-C16-F4

Applications

- Suitable for indoor floor screedings:
 - Non-adhered screed:
 Over a separation laminate (thickness ~ 35mm).

 Over acoustic and/or thermal insulation (thickness ~ 45mm).

 floor with underfloor heating system (thickness ~ 45mm over the heating pipes).
 - Screed adhered to the base (thickness ~ 30 mm).

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 using the recommended amount of water (approximately 4,5 liters/sack) and do not add cement, sand or any other product that will modify the original formula.
- 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.

Supply

- In 25 kg paper sacks Palletized in 60 sacks/pallet (1500 Kg).
- In 20 m³ silos, which can be refilled at the work site using tank trucks. May include a specific pumping machine for an automatic and continuous elevation of the product.
- The client may use their own pumping machinery, which must be suitable to the characteristics of the product.
- The supply will follow the General Terms of the Contract that is in force.

Storage

- In silos we guarantee that the characteristics of the product are maintained intact for two months from the manufacturing date.
- Storing in sacks guarantees that the characteristics of the product are maintained intact for one year from the manufacturing date, as long as they are kept in a location that is under cover and dry.

Standards

CE	
Morteros y Revocos BIKAIN, S.A. B/Aldebarrena, no. 18 48212 (Mañaria)-Bizkaia 06 DdP No. : S3	
EN 13813 BIKAUT 8200 C12 / BIKAUT 8200 C16 Cement based floor screed mortar for use on indoor floors	
Compressive strength:	C12 (~ 12N/mm ²) C16 (~ 16N/mm ²)
Flexural strength:	F3 (~ 3N/mm ²) F4 (~ 4N/mm ²)
Böhme wear resistance:	Class A22
Reaction against fire:	Class A1

Other technical characteristics

- **Appearance:**..... Grey powder
- **Grain size:**..... 0-2mm
- **Water % (consistency 210-240 mm EN 13454-2):**
..... 18-19%
- **Bulk density of fresh mortar (UNE-EN 1015-6):**
..... 1,9±0.1 (gr/cm³)
- **Maximum thermal expansion:** 0.3 (mm/m)
- **Maximum shrinkage:** 0.5 (mm/m)
- **Thermal conductivity:**..... 1.35 (W/mK)
- **Theoretical yield:** 18-20 (kg/cm.m²)
- **Custom tariff** 3824.50.90.00

Usage instructions

Conditions for application

- Avoid any airflow during the pouring and the first days of the setting.
- Prior to begin the application the concrete closure works shall be completed.
- The ambient temperature during the application must be between 5° C and 35° C.

Preparation of the base

- The base over which the floor screed mortar will be applied must be clean.
- **Installation of Perimeter baseboards**
- A perimeter baseboard made of rubber foam and ~ 8 mm thick for absorbing any movements that occur.

Installation of the separation laminate

- An anti-impact laminate shall be installed over the entire surface. The laminates are installed with a ~20 cm overlap between them.

Applying over insulation

- the thermal insulation is placed over a clean base and if heating pipes are present, these must be protected with an insulating sleeve.
- If you wish to include acoustic insulation, it shall be installed in a manner that the unions overlap by ~10 cm. If thermal + acoustic insulation is installed, the later shall be installed below.

Bonding over a floor with an underfloor heating system

- The unions between the thermal insulation and the brick walls must be tightly fitted.
- The underfloor heating pipes must be anchored or inserted through the thermal insulation.

Distribution of the work area

- In addition to remaining clear of the building's thermal expansion joints, other thermal expansion joints are required:
 - Around the perimeter of the working area
 - At unions between cold and hot zones.
 - Every 150 m² of surface, every 15 linear metres and/or every architectural cut. (With underfloor heating system every 50 m² of surface and/or a maximum of every 5 linear metres)
 - When the floor is divided into different sections for organizing the work.
- The thermal expansion joints must be placed over the base prior to pumping the screed.

Pouring of the product

- First we must mark all the floor screed finishing levels in order to determine the thickness of the product that is to be poured.
- Prior to begin pouring the screed we must check the flow index of the material measured with the Bikain cone is between 35-40 cm. The flow index must be continuously checked and maintained stable throughout the pumping.
- Once the level is reached we shall begin removing any possible bubbles and levelling the material by stirring it in two directions perpendicular to each other using a suitable stirring bar.
- If it is not possible to carry out the pouring over a complete surface at once, no more than 24 hours shall elapse between pourings.
- The work area may be accessed 24-48 hours after the pouring. After seven days, loads may be placed over the floor screed.

Drying of the screed

- To prevent cracking, the screed shall not be exposed to sunlight and airflows shall be avoided for at least the first 24 hours after it is poured.

- The screed must air dry and avoid any dirt caused by plasters, paints, greases, etc.
- As a **guide** (CEN/TS 14472-1), the screed drying time is calculated as one day per millimetre of thickness, although this time depends on different factors such as the thickness of the applied layer or the weather.
- On the surface of continuous fluid floor screeds, a dense film is always generated which must be removed in order to improve the adherence of the floor tiles (CEN/TS 14472-1).
- If the floor screed is poured over a floor with an underfloor heating system, the heating system shall not be operated until 21 days after the pouring and always be gradually increasing the temperature.

Bonding of floor tiles

- The BIKAUT 8200 floor screed must always be cladded. Depending on the final usage, the floor tile may be: ceramic, marble, floating parquet or over battens, carpet, etc.
- In all cases the supplier and/or installer must check the suitability of the screed regarding the different floor tiling requirements (humidity, tensile strength, ...).
- Prior to installing any floor tile, the surface may need to be treated such as for example by applying a primer, installing an impermeable membrane, etc., always following the recommendations provided by the floor tile supplier.

Customer / technical service

- In case of doubt regarding the selection, use or application of the products, first consult with our Customer/Technical Service Department.
- If you need a specific product, our Customer/Technical Service Department will help you determine your specific needs and will provide the best solution for your needs.

Remarks

- *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 with our 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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