

PRB BÉTON R&D



ECO-FRIENDLY CONCRETE FOR MASONRY AND GROUTING WORK

The of PRB BÉTON R&D

- + Carbon footprint reduced by 15%*
- + Masonry work such as: screeds, flooring, foundations, window sills, steps, lintels...
- + Grouting posts and small structures
- + Ready to mix
- + High mechanical strength



PACKAGING

– Paper bag containing 25 kg.

STORAGE LIFE: 12 months.

CONSUMPTION/USE

– (L x W x D) x 2,100 = Useful amount of concrete.

No. of bags = Useful amount of concrete (kg) / 25.

– The amount consumed varies according to the m³ of the work to be cast.

– Consumption: 2,100 kg/m³. For example:

– For 1 m² of 5 cm thick screed: 0.05 m³ x 2,100 kg/m³ = 105 kg of CONCRETE.

– For 1 m² of 15 cm thick screed: 0.15 m³ x 2,100 kg/m³ = 315 kg of CONCRETE.

Please note: Depending on the structure, these values will be calculated according to the specific dimensions and reinforcement requirements.

COLOUR: Grey.



* Calculation in comparison with a product in the same category and with the same functional unit and the same reference life span (see the environmental and health declaration form on the INIES website)

APPLICATIONS

USES

- PRB BÉTON R&D can be used on interior and exterior floors and walls.
- All types of masonry and grouting work.

APPLICATION CONDITIONS

- Between 5°C and 30°C.

TECHNICAL CHARACTERISTICS

INGREDIENTS

- Low-carbon binders.
- Sands, fillers.
- Gravel.
- Water-repellent agents.

PRODUCTS

POWDER:

- Max. grain size: 10 to 11 mm.

PASTE:

- Density: 2.25 ± 0.1 t/m³.
- pH (alkaline): 12.5 ± 0.5.
- Setting time:
Start: 120 ± 30 min.
End: 240 ± 60 min.

PERFORMANCE OF THE CONCRETE WHEN HARDENED (28 DAYS):

- Compressive strength: C30/C37.
- Flexural strength: 5 to 8 MPa.
- Reaction to fire (non-combustible): A1 (M0).

APPLICATION

- Quantity of water needed: 10 to 13%.
- Mixing time: 1 and a half to 3 minutes (depending on the equipment used).
- Manipulation time: 60 mins.

NB: These values are estimates based on laboratory or on-site testing. The conditions of use, the type of material used and its level of wear and tear can significantly alter these values.

UTILISATION

PREPARING THE SURFACES

- Provide expansion joints every 60 m² for screeds and paving.
- Install reinforcements where necessary.

PREPARING THE MORTAR

- 2.5 to 3.25 litres of clean water per 25 kg bag.
- We recommend using a concrete mixer or, if necessary, mixing by hand until a smooth mixture is obtained.

APPLICATION AND TYPE OF FINISH

- Pour the concrete into the formwork and vibrate or spike it to remove any air bubbles.
- When laying concrete in hot weather/ environments, spray the concrete with water while it is setting.

PRECAUTIONS FOR USE

- Contains cement and/or lime.
- Refer to the packaging safety label and safety data sheet before use.
- Do not add water to setting concrete.
- Using too much water reduces mechanical strength.

PRB BÉTON R&D
MORTARS AND CONCRETES: STANDARD (NON-
STRUCTURAL) CONCRETES

SPECIALIST
MORTARS