PRB CHAPE PRO R&D

ECO-DESIGNED SCREED MORTAR - FOR NORMAL SETTING AND SEMI-RAPID COVERAGE

The + s of PRB CHAPE PRO R&D

- Carbon footprint reduced by 54%*
- Ready to use
- Traditional tiling and grouting
- Glue-down laying after 48 hrs
- Thicknesses from 3 to 10 cm

FDES VERIFIED inies
0275851292021

For P3 class floors

PACKAGING
– Paper bag containing 25 kg.

STORAGE LIFE: 12 months.

CONSUMPTION/USE
19 to 21 kg/m²/cm thick depending on the compaction of the mortar.

COLOUR: Light grey.

* Calculated against a product of the same category, functional unit and useful life (see the FDES document on the INIES website - FR).

APPLICATIONS

USES
- Interior and exterior floors in premises classed P2 and P3.
- For use in bonded, unbonded or floating screeds on insulation in residential premises, walk-in showers, offices, shops, garages, terraces, balconies and swimming pool surroundings.

REFERENCE DOCUMENTS
- French DTU Standard, Technical specifications and all and applicable regulations (French DTU 26.2, 52.1, 52.2, 52.10, 65.14 & Technical specification 3529)

SUITABLE SUBSTRATES
The surface must be strong, adhesive-friendly, solid and suitable for its intended use.
- Concrete floors protected against capillary rise.
- Concrete floors.
- Bonded or embedded cement mortar screeds.
- Low temperature hydronic underfloor heating (PCBT) coated with cement (see French DTU Standard 65.14).
- Existing tiles fixed with cement.

For unbonded screeds:
- All interior floors (in accordance with the Technical Specification 3782).
- Thermal or acoustic insulation, class SC1 or SC2.
- Traditional, hard and solid wood panelling or parquet flooring.
- Floor paint or other rigid or semi-rigid surfaces coatings.

Note: When using with wood-based panels, it is important to ensure that the underside of the panel is well ventilated.

UNSUITABLE SUBSTRATES
Do not apply to:
- Loose or weak surfaces.
- Unrepaired cracked floors
- Underwater floors.
- Floors subject to rising capillary water*.
- All gypsum-based substrates (plaster).

* First, treat the surface with 2 coats of **PRB ACCROSOL TECHNIC**, sandblast to finish.

COMPATIBLE SURFACING MATERIALS
The screed should not be left exposed and must be covered with a floor covering once it has dried and the surface film has been removed.
The residual moisture content at the time of laying the floor covering must comply with the requirements of the relevant DTU, Technical specification or TTD.
- Direct glue-down tiles.
- Textile coverings.
- Floor rendering before laying soft flooring, floor painting.
- Glued or floating parquet flooring.

APPLICATION THICKNESSES
- 30 to 100 mm.

Minimum thicknesses of **PRB CHAPE PRO R&D** to be respected depending on the type of use:
- Adhesive application, sloping screed: 30 mm
- Unbonded application: 50 mm.
- Floating application on SC1 insulation: 50 mm.
- Floating application on SC2 insulation: 60 mm.

APPLICATION CONDITIONS
- Between 5°C and 35°C.
- Do not apply to frozen, freezing, thawing, hot or damp surfaces. Do not apply to surfaces in full sunlight or during heavy rain and strong winds.
- Avoid draughts when applying.
- Do not interfere with existing expansion and dividing joints.

TECHNICAL CHARACTERISTICS

INGREDIENTS
- Specialist fluid binders.
- Fillers.
- Specific additives.

PRODUCTS
POWDER:
- Max. grain size: 4 mm.

PASTE:
- pH (alkaline): 12.5.

PERFORMANCE WHEN HARDENED:
- Class - according to EN 13813: CT-C16-F3.
- Reaction to fire: NPD.

APPLICATION
- Quantity of water needed: 9 to 11%.
- Bonding slip for each bag of **PRB CHAPE PRO R&D**: 1 litre **PRB LATEX** + 2 litres of water.
- Mixing time: 3 to 5 mins.
- Working time for the mortar/slip: 30 ± 10 min.
- Workable time - trowelling: Approx. 20 min (depending on thickness).
- Can be walked on after: 24 hrs.
- Can be driven on after: 48 hrs.
- Waiting time before covering:
  - Tiles & Textiles: 48 to 72 hours.**
  - Levelling product before applying soft flooring: 48 to 72 hours.
  - PVC, rubber, linoleum: 7 days.
  - Glued parquet floors: 14 days.
  - Floor paint: 21 days.

** Depending on thickness and ambient conditions. Depending on the type of flooring to be bonded, a residual moisture check must be carried out before use (see trade rules).

NB: These values are estimates based on laboratory tests carried out in accordance with the applicable technical guidelines. The application conditions can significantly change these values.

UTILISATION

Please refer to the PRB Process Sheets

PREPARING THE SURFACES
- Surfaces comply with the reference DTU (26.2 et seq.) and be suitable for their intended use.
- For renovation applications, please refer to the preliminary ground survey (Technical specification 3529 in force).

Checking and Cleaning
- The surface must be strong, adhesive-friendly, solid and dry, and free from cracks or rising moisture.

FOR BONDED SCREEDS:
- Remove traces of plaster, varnish, wax, surface laitance, etc. by scraping or sanding.
- Remove products that may limit adhesion (curing products, hardeners, floor treatments - wax, water repellents, oil repellents, etc.), oils and greases, by sandblasting or sanding the surface.
- Then remove any remaining dust by brushing and vacuuming.
- Pipes are to be covered with **PRB CHAPE PRO R&D** (see DTU 26.2 and 52.10).
- Make a bonding slip by mixing **PRB CHAPE PRO R&D** with **PRB LATEX** (1/2 water + 1/2 latex) until you get a fluid consistency and apply the C2 or C2S1 mortar slip with a brush or a mortar comb and cover with the screed (fresh on fresh), working as you go.

FOR UNBONDED SCREEDS:
- All preparation work and unbonded layers should comply with DTU 26.2 & 52.10.

PREPARING THE MORTAR
The mortar can be mixed using a concrete mixer or a shovel.
- 2.25 to 2.75 litres of clean water per 25 kg bag.
- Keep the water dosage consistent for all mixes.
- Mix **PRB CHAPE PRO R&D** carefully and quickly for 3 to 5 minutes.
- Apply immediately.
- Clean the tools (mixer, concrete mixer, etc.) before the mortar hardens.

APPLICATION
- Spread the mortar and form the level or slope marks, then continue spreading the screed.
- Compress the mortar and level it using a screed bar.
- Finish by trowelling before hardening.
- If work is interrupted for more than one hour, the screed must be finished off with a clean cut and a 1 m strip of 50 x 50 mm mesh (50 cm coated / 50 cm overhanging) laid over the fresh mortar. When resuming work, apply a bonding slip to the edge.
- It can be transported using a screed pump.

For technical joints
- Leave a gap of 3 to 10 mm around the edge: apply a foam strip (e.g. ISOL 100 PRB) or polystyrene.
- Replicate the existing expansion joints using suitable commercially available sections.
- Dividing the surfaces: to be adapted according to the work (see the DTU).

Low temperature hydronic underfloor heating
- Refer to the relevant DTU.

Tile grouting
- Make the grouting mortar and the slip as per the DTU 52.1.

Mortar bed (underlaying)
- Improve the evenness of floors before installing thermal or acoustic insulation.
- Cover pipes and level the top of the pipes in preparation for laying the screed.

Drainage mat (exterior floors)
- Please refer to the relevant technical notice for drainage matting and contact us for further information.

PRECAUTIONS FOR USE
- Contains cement and/or lime.
- Please read the packaging safety label and safety data sheet before use.
- Floor paint: the minimum or shorter drying time is to be confirmed by the paint manufacturer and varies depending on the type of paint and the associated primer.

Technical Data Sheet - 29 August 2022