

PRB COLLE PRO R&D

ECO-DESIGNED IMPROVED ADHESIVE MORTAR



The +s of PRB COLLE PRO R&D

- + Carbon footprint reduced by 40%*
- + Longer open time and high slip resistance
- + Direct bonding on existing tiles
- + Suitable for large formats (up to 3600 cm²)



0275881292021

Category C2 ET



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

PACKAGING

- Paper bag containing 25 kg.

STORAGE LIFE: 18 months.

CONSUMPTION/USE

For localised levelling: 1.5 kg/ m²/ mm. The comb and gluing method should be selected according to the format and the intended use.

As a guide, according to the French DTU, in kg/m²:

Comb	Single bonding	Double bonding
U6	3,5	5 to 6
U9	4,5	6 to 7
DL 20	/	6 to 8

See consumption details at the end of the "CARRELEUR" catalogue.

COLOUR: Light grey.



APPLICATIONS

USES

Bonding ceramic coatings and associated materials for:

- Interior & exterior floors.
- Internal walls
- New builds and renovation work.
- For floors up to class U4, P3.

REFERENCE DOCUMENTS

- The French DTU 52.2 and the applicable Technical specifications.

SUITABLE SUBSTRATES

FOR OUTDOOR USE:

- Concrete.
- Cement mortar screeds.
- Liquid waterproofing systems.

FOR INDOOR USE:

- Dry screeds.
- Liquid cement screed (1).
- Anhydrite screed with less than 0.5% moisture content (3).
- Floor coverings with at least a P3 rating.

- Single-layer cement mortar renders (CS category 3 and 4).
- Plasterboard, water-resistant or standard.
- Terracotta tile walls.
- Autoclaved aerated concrete.
- Existing tiles (2) (glued or sealed in place).
- Old, adherent and resistant paints (3).
- Solid PVC tiles (2).
- Asphalt flooring (3)
- Wooden panels (chipboard or plywood) (3).
- Water protection systems (SPEC).

- (1) The use of a primer is optional, provided that the surface is free of dust and offers sufficient adhesion.
- (2) The use of primer to improve the preparation process is optional.
- (3) Prepare the surface using **PRB ACCROSOL AG**, **PRB ACCROSOL PLUS** or **PRB ACCROSOL EXPRESS**.

Other applications: see the selection guide.

UNSUITABLE SUBSTRATES

Do not apply to:

- Floors subject to rising damp (treat the surface with 2 coats of **PRB ACCROSOL TECHNIC**, sandblast to finish)
- Metals.
- Plaster and plaster tiles.

COMPATIBLE SURFACING MATERIALS

TYPES:

PRB COLLE PRO R&D is suitable for laying the following floor coverings:

- Glazed and unglazed porcelain tiles.
- Porcelain tiles (porosity of <0.5 %).
- Terracotta.
- Natural stone
- Cement tiles.

NB: The weight of the surface coatings is limited to 40 kg/m² for walls.

FORMAT:

(refer to the French DTU Standard 52.2, P1.1.1 to P1.1.4)

PRB COLLE PRO R&D can be used for bonding large surfaces:

- Interior walls: up to 2,200 cm².
- Interior floors: up to 3,600 cm².
- Exterior floors: up to 2,200 cm².

NB: For floors, the applicable standards and regulations regarding the slip resistance of the tiles must be respected. See the selection guide for size limitations according to the type of substrate.

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.
- For outdoor terraces, we recommend moistening the slab or screed before gluing.
- Do not interfere with existing expansion and dividing joints.
- Allow for an edging joint between the last row of tiles and the vertical walls.

TECHNICAL CHARACTERISTICS

INGREDIENTS

- Specialist fluid binders.
- Mineral fillers.
- Plasticising resin with high wetting and adhesion properties.
- Specific additives.

PRODUCTS

POWDER:

- Grain size: <600 µm

PASTE:

- pH (alkaline): approx. 12.5.

PERFORMANCE WHEN HARDENED:

- Class - according to EN 12004-1: C2 ET.
- Adhesion (dry, water, heat, freeze-thaw) ≥1 MPa.
- Temperature resistance: -30°C + 70°C.

APPLICATION

- Quantity of water needed: 27 to 29%.
- Resting time: 5 min (approx)
- Open time: 30 min (approx.)
- Adjustability time: 20 mins (approx.)
- Manipulation time (pot life of the mix): 2 hrs (approx.)
- Waiting time before grouting: 12 to 24 hrs.
- Surface ready to use in: 24 to 48 hrs.

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 must be structurally sound, clean and free of moisture.
- Remove all traces of plaster, grease, laitance, etc. by sanding and then brush or vacuum to remove any dust.
- Surfaces must be flat and even. For uneven surfaces, patch the surface 24hrs before applying the adhesive mortar using **PRB COLLE PRO R&D** (at a thickness of at least 2 to 10 mm). Please allow 24 to 48 hrs before applying the adhesive mortar.
- A primer may be required, depending on the surface (see above). In this case, apply **PRB ACCROSOL AG** or **PRB ACCROSOL PLUS** (150 to 300 g/m²) and allow to

dry for 2 to 4 hours before applying the adhesive mortar.

For a faster drying time (at least 30 minutes depending on the surface), apply **PRB ACCROSOL EXPRESS** (150 to 300 g/m²).

PREPARING THE PRODUCT

- Using an electric mixer set to a slow speed, mix 1 bag of **PRB COLLE PRO R&D** with 6.75 to 7.25 litres of clean water until you obtain a smooth, lump-free paste.

APPLICATION

- Spread **PRB COLLE PRO R&D** onto the surface using a spatula or trowel, then adjust the thickness with a serrated trowel (select the serration spacing according to the type of coating and the flatness of the surface to be coated).
- When double bonding, apply a thin layer (1 to 2 mm) to the back of the tile.
- You should always use the double bonding method when laying tiles with low porosity.
- Lay the tiles on top of the fresh grooves and press or tap firmly so that the mortar is evenly spread over the back of the tiles and that there are no air bubbles.

NB: Tiles should be cleaned with a sponge as soon as they are laid, and tools and stains

should be cleaned with water as soon as they are used.

GROUTING - FINISHING

- Please wait until the next day before grouting.
- For grouting, we recommend using products from the PRB JOINT range. These products are ready to use and are specially adapted to the various types of use (see technical data sheets).

PRECAUTIONS FOR USE

- Contains cement and/or lime.
- Please read the packaging safety label and safety data sheet before use.