

# PRB COLLE HP R&D

IMPROVED DEFORMABLE ECO-DESIGNED ADHESIVE MORTAR



PRB COLLE HP R&D  
ADHESIVE MORTAR: ECO-DESIGNED MORTAR

ADHESIVES  
& FLOORING

## The **+** s of PRB COLLE HP R&D

- +** Reduced carbon footprint (FDES in progress)\*
- +** Extended open time
- +** Good slip resistance
- +** Compatible with underfloor heating
- +** For the installation of large tiles up to 15,000cm<sup>2</sup>

Class  
C2S1 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:** 12 months.

### CONSUMPTION/USE

**Localised levelling:** 1.5kg/m<sup>2</sup>/mm of thickness. The type of trowel and bonding method should be chosen according to the size of the tiles and their intended use. As a guide, according to the DTU, in kg/m<sup>2</sup>:

Trowel	Without back buttering	With back buttering
Serrated trowel		
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 "TILING" catalogue.

**COLOUR:** Light grey.



## AREA OF USE

### USES

Bonding ceramic and similar tiles for:

- New and renovation work.
- Interior and exterior walls and floors.
- Public or private pools and ponds.

### REFERENCE DOCUMENTS

• French DTU standard 52.2 and Technical Specifications in force.

### SUITABLE SUBSTRATES

#### OUTDOOR USE:

- Concrete.
- Concrete floors in unheated rooms and over crawl spaces.
- Render and cement mortar screed.
- Single-coat cement mortar render (Classes CS III and CS IV)
- Liquid Sealer Systems (SEL) with sand.

#### INDOOR USE:

- Dry screed.
- Liquid cement screed.<sup>(1)</sup>
- Anhydrite screed with less than 0.5% moisture content.<sup>(2)</sup>

- Floor coverings classed as at least P3.
- PCBT, PCR and PRE heated floors.
- Plasterboard (waterproof or not).
- Terracotta tile walls.
- Cellular concrete.
- Old bonded tiles<sup>(3)</sup> (glued or sealed).
- Old adherent and resistant paint.<sup>(4)</sup>
- Rigid PVC tiles.<sup>(5)</sup>
- Asphalt screed.<sup>(6)</sup>
- Wood panels (CTBH, CTBX, OSB).<sup>(7)</sup>
- Waterproofing systems (SPEC).

- (1) Primer is optional, subject to the surface being adherent and free from dust.
  - (2) The use of primer to improve the preparation process is optional.
  - (3) After preparation and in combination with PRB ACCROSOL AG, PRB ACCROSOL PLUS or PRB ACCROSOL EXPRESS primers.
- Other uses: see the selection guides.

### PROHIBITED SUBSTRATES

#### Do not apply to:

- Floors subject to rising damp (use PRB ACCROSOL TECHNIC, applied in 2 layers with a sanded finish).
- Metal.
- Unprotected plaster or gypsum blocks.

### COMPATIBLE COVERINGS

#### Type:

- PRB COLLE HP R&D is suitable for laying the following types of tiles:
- Glazed stoneware (enamelled or non-enamelled).
  - Porcelain stoneware (porosity < 0.5%).
  - Natural stone (limestone, marble, granite, etc.)\*
  - Terracotta, glass paste, earthenware.
  - Reconstituted tiles (contact us).

\* Stain test to be carried out beforehand in accordance with DTU/Technical Specifications.

NB: The weight of the coverings must not exceed 40kg/m<sup>2</sup> for walls.

### SIZE:

(Refer to NF DTU 52.2, P1.1.1 to P1.1.4)  
PRB COLLE HP R&D is suitable for laying large tiles:

- Interior walls: up to 3,600cm<sup>2</sup>
- Exterior walls: up to 3,600cm<sup>2</sup>
- Interior floors: up to 3,600cm<sup>2</sup> and up to 15,000cm<sup>2</sup> for new installations.
- Exterior floors: up to 3,600cm<sup>2</sup>.

Other sizes: contact us.

NB: for floors, the applicable standards and regulations regarding the slip resistance of the tiles must be respected.

Size limitations depend on substrate: please refer to the selection guides.

### APPLICATION CONDITIONS

- Between 5°C and 35°C.
- Do not apply to frozen, freezing, thawing, hot or wet substrates, or in full sunlight, heavy rain or high winds.
- For outdoor terraces and patios, we recommend moistening the slab or screed before gluing.
- Respect existing expansion and dividing joints.
- Allow for an edging joint between the last row of tiles and the walls.

## TECHNICAL CHARACTERISTICS

### INGREDIENTS

- Eco-designed fluid binders.
- Mineral fillers.
- Resin plasticiser with high wetting and adhesion power.
- Specific additives.

### PRODUCTS

#### POWDER:

- Grain size: ≤ 600 µm

#### PASTE:

- pH (alkaline): approx. 12.5.

#### PERFORMANCE WHEN HARDENED:

- Class - according to EN 12004-1: C2 S1 ET.
- Adherence (dry, water, heat, freeze-thaw) ≥ 1 MPa.
- Temperature resistance: -30°C + 70°C.

### APPLICATION

- Mixing ratio: 27 to 29%.
- Resting time: Approx. 5min
- Open time: Approx. 30min
- Adjustability time: Approx. 20min
- Application duration: approx. 2 hours.
- Time before grouting: 12 to 24 hrs.
- Time before use: 24 to 48hrs.

NB: These values are estimates from laboratory tests carried out in accordance with the technical guides. The application conditions can significantly change these values.

## UTILISATION

Please refer to the PRB Process Sheets

### SUBSTRATE PREPARATION

- Substrate surfaces must be resistant, clean and not seeping moisture.
- Remove traces of plaster, fatty substances, surface laitance, etc. by sanding then clean off the dust with a brush or vacuum cleaner.

Substrates must also be flat and even. For uneven surfaces, patch locally with PRB COLLE HP R&D (at a thickness of 2 to 10 mm) the day before laying at the latest. Wait 24 to 48 hrs before laying.

- Depending on the substrate (see above), a primer may be necessary. In this case, apply PRB ACCROSOL AG or PRB ACCROSOL PLUS at a rate of 150 to

300 g/m<sup>2</sup> and leave to dry for 2 to 4 hrs before spreading the adhesive mortar. For a faster drying time, (at least 30 min depending on the substrate), use PRB ACCROSOL EXPRESS at a rate of 150 to 300 g/m<sup>2</sup>.

### PRODUCT PREPARATION

- Mix 1 bag of PRB COLLE HP R&D with 6.75 to 7.25 l of clean water using an electric mixer at low speed until you obtain a smooth, lump-free paste.

### APPLICATION

- Spread the PRB COLLE HP COLLE over the substrate using a trowel or float then adjust the thickness with a notched trowel (to be chosen according to the size of the tile and the flatness of the substrate).
- When back buttering, apply a thin layer of 1 to 2mm to the back of the tile.
- You should always back butter tiles with low porosity.
- Place the tile onto the fresh ribs and press firmly or tap to ensure good transfer and expel any air.

NB: Tiles should be cleaned with a sponge as soon as they are laid.

Tools and fresh marks should be cleaned immediately with water.

### GROUTING - FINISHING

- Grouting can be carried out the following day.
- When grouting, use a product from the PRB JOINT range. These products are ready to use and suitable for a variety of applications (see technical data sheets).

### PRECAUTIONS FOR USE

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