

PRB • COL MONOFLEX HP

ULTRA-HIGH PERFORMANCE IMPROVED FLEXIBLE ADHESIVE MORTAR



The **+**s of PRB•COL MONOFLEX HP

- +** Suitable for very large sizes and heated floors
- +** Special facades: bonding stoneware and stone up to 28 metres
- +** Superior adhesive properties
- +** Highly resistant to temperature variations
- +** Recommended for all types of technical work



SANS POUSSIÈRE*
Émissions de poussière réduite

Class C2S1 ET

QB
QUALITÉ POUR LE BÂTIMENT
No. 49 MC 228

EXCELL
Certification Industrielle Ambroisie
au service de la réglementation

A+
ÉMISSIONS DANS L'AIR INTÉRIEUR
A+ | A | B | C

PACKAGING

– Paper bags containing 5 or 25kg

STORAGE LIFE: 18 months.

CONSUMPTION/USE

For localised levelling: 1.5 kg/m²/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/m²:

Serrated trowel	Without back buttering	With back buttering
U6	3.5	5 to 6
U9	4.5	6 to 7
DL 20	5 to 8	6 to 8

Tile sizes from 3,600 to 15,000 cm²: 7 to 8

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

COLOUR: White & grey.



AREA OF USE

USES

- New and renovation work.
- Walls and floors, interior and exterior
- Areas subject to heavy use.
- Public or private swimming pools and ponds.
- French DTU 52.2 and Technical Specifications in force.
- Adhesive mortar certification.

SUITABLE SUBSTRATES

- Concrete.
 - Concrete floors in unheated areas and above crawl spaces.
 - Render and cement mortar screeds.
 - Single coat cement mortar render (CS category III and IV).
 - Liquid Sealer Systems (SEL) with sand.
- INDOOR USE (SEE PROCESS SHEETS):**
- Floor coatings classified as P3 or higher.
 - Plasterboard, water-resistant or standard.
 - Autoclaved aerated concrete.
 - Terracotta tile walls.
 - Low temperature hydronic underfloor heating, reversible underfloor heating and cooling systems & electric underfloor heating.

- Liquid cement screeds (2).
 - Anhydrite screeds (3) with a moisture content of less than 0.5%.
 - Old bonded tiles (1) (glued or grouted).
 - Old adherent and resistant paint (3).
 - Rigid PVC tiles (1).
 - Asphalt screeds (3).
 - Waterproofing systems (SPEC - under-tile waterproofing systems).
 - Wooden panels (chipboard or plywood) (3).
- (1) The use of primer to improve preparation is optional.
(2) The use of a primer is optional provided the surface is adherent and free of dust.
(3) After preparation and in combination with a primer: **ACCROSOL AG** or **ACCROSOL PLUS**.

Other uses: see the selection guides.

PROHIBITED SUBSTRATES

- Do not apply to:**
- Floors subject to rising damp (apply ACCROSOL TECHNIC).
 - Bare plaster.
 - Metal.

COMPATIBLE COATINGS & COVERINGS

TYPE:

- PRB•COL MONOFLEX HP is suitable for laying the following types of tiles and coverings, regardless of their porosity:
- Glazed stoneware (enamelled or not).
 - Porcelain tiles.
 - Natural stone (limestone, marble or granite)*.
 - Terracotta, pâte de verre and earthenware.
 - Reconstituted tiles (please contact us beforehand).

* Use **PRB•COL MONOFLEX HP White**.
Stain test in accordance with DTU/Technical Specifications.

NB: The weight of the coverings/coatings must not exceed 40kg/m² for walls.

SIZE:

- PRB•COL MONOFLEX HP can be used for bonding large surfaces:
- Interior walls: up to 3,600 cm² and up to 36,000 cm² on double plasterboard.

- Exterior walls: up to 3,600cm².
 - Interior floors: up to 3,600cm² and up to 15,000cm² for new installations.
 - Exterior floors: up to 3,600cm²
- For other size, please contact us before use.

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 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/bonding.
- 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

- Grey or white hydraulic binders.
- Silica fillers, water retention agents & setting agents.
- Specific additives & fibres.
- Incorporated resin plasticiser with high wetting and adhesion properties.

PRODUCT

POWDER:

- Density: 1.2 ± 0.1 t/m³.
- Grain size: <400 µm
- pH (alkaline): 12.5 ± 0.5.

AVERAGE PERFORMANCE WHEN HARDENED:

- Class - according to EN 12004-1: C2S1 ET
- Adhesion (dry, water, heat & freeze-thaw): ≥1.00 MPa.

- Temperature resistance: -30°C + 70°C.

APPLICATION

- Mixing ratio (amount of water needed): Grey: 26 to 28 %. White: 25 to 27%.
- Resting time before use: Approx. 5 mins.
- Tack free time: 30 mins.
- Adjustability time: 20 ± 10 mins.
- Manipulation time (workable life): 2 hrs.

- Waiting time before grouting: 8 to 24 hrs.
- Ready to walk on after: 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

SUBSTRATE PREPARATION

- Substrate surfaces must be resistant and clean and not seeping moisture.
- Remove all traces of plaster, grease, laitance, etc.
- Depending on the type of surface, a primer may be required (see above). In this case, apply **PRB ACCROSOL AG** or **PRB ACCROSOL PLUS** at a rate of 150 to 300 g/m² and allow to dry for 2 to 4 hours before applying the adhesive mortar.
- **PRB•COL MONOFLEX HP** can be used for

levelling or filling for thicknesses of 2 to 10 mm. Wait 24 to 48 hrs before laying.

PRODUCT PREPARATION

- Using an electric mixer set to a slow speed, mix 1 bag of **PRB•COL MONOFLEX HP** Grey with 6.5 to 7L of clean water (White: 6.2 to 6.8 L of clean water) per 25 kg bag until you obtain a smooth, lump-free paste.

APPLICATION

- Spread **PRB•COL MONOFLEX HP** 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 covering and the flatness of the substrate).

- For back buttering, apply a thin layer (1 to 2 mm) to the back of the tile.
- Always use the back buttering technique when laying tiles with low porosity.
- Lay the tiles on the fresh mortar and press or tap firmly to ensure that the mortar is evenly distributed on the back of the tiles and to expel any air bubbles.

NB: Tiles should be cleaned with a sponge as soon as they are laid. Tools and stains should be cleaned immediately with water.

GROUTING - FINISHING

- 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.