

PRB • COL DUO FLEX

IMPROVED FLEXIBLE FIBRE-REINFORCED ADHESIVE MORTAR



The +s of PRB • COL DUO FLEX

- + 2-in-1 formula for normal & fluid consistencies
- + Suitable for all types of underfloor heating systems
- + Suitable for laying large tile sizes of up to 15,000 cm²
- + For simple bonding and back buttering

SANS POUSSIÈRE*
*Émissions de poussière réduite



QB
QUALITÉ POUR LE BÂTIMENT
No. 49 MC 353



Class C2S1 ET (normal)
Class C2S1 EG (fluid)

AREA OF USE

USES

- New and renovation work.
- Interior & exterior walls and floors.
- For floors up to category U4, P3.
- French DTU standard 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.
- Liquid cement screeds (2).
- Anhydrite screeds (3) with a moisture content of less than 0.5%.
- Floor coatings classified as P3 or higher.
- Dry screeds.
- Low temperature hydronic underfloor heating, reversible underfloor heating and cooling systems & electric underfloor heating.

SEE PROCESS SHEETS:

- Plasterboard (water-resistant or standard).
- Autoclaved aerated concrete.
- Terracotta tile walls.
- Old bonded tiles (1) (glued or grouted).
- Old adherent and resistant paint (3).
- Rigid PVC tiles (1).
- Wooden panels (chipboard or plywood or OSB)(3).
- Bonded mosaic parquet flooring (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.

PACKAGING

– Paper bag containing 25 kg

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/Technical Specifications, 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

Normal consistency

Trowel	Sizes in cm ²	Without back buttering	With back buttering
U9	120 to 1,200	4 to 5	5 to 6
DL 20	1,200 to 2,200	5 to 6	6 to 7
DL 20	2,200 to 3,600	6 to 8	6 to 8
DL 20	3,600 to 15,000	—	7 to 8

Fluid consistency

See details in the Consumption Table at the end of the Adhesives & Flooring section.

COLOUR: White & grey.

COMPATIBLE COATINGS & COVERINGS

TYPE:

- PRB • COL DUO FLEX is suitable for laying the following types of tiles and coverings, regardless of their porosity:
- Glazed or extruded stoneware (enamelled or non-enamelled).
 - Fully glazed stoneware.
 - Terracotta, pâte de verre & earthenware.
 - Natural stone* (limestone, marble & granite).
- * Use **PRB • COL DUO FLEX White**. Stain test in accordance with the DTU/Technical Specifications.

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

SIZE:

- PRB • COL DUO FLEX is suitable for laying large tiles and coverings:
- Interior walls: up to 3,600 cm² and up to 36,000 cm² on double plasterboard.
 - Exterior walls: up to 3,600 cm²

- Interior floors: up to 3,600 cm² and up to 15,000 cm² for new installations
 - Exterior floors: up to 3,600 cm²
- 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, thawing, hot, wet or damp surfaces. Do not apply to surfaces when exposed to direct sunlight.
- For outdoor terraces and patios, we recommend moistening the slab or screed before gluing/bonding.
- Do not interfere with existing expansion and dividing joints.
- Leave space for an edging joint between the tiles and the vertical walls.

TECHNICAL CHARACTERISTICS

INGREDIENTS

- Fluid 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: 12.5 ± 0.5

AVERAGE PERFORMANCE WHEN HARDENED

- Class - according to EN 12004-1:
 - C2 S1 ET when mixed to a normal consistency
 - C2 S1 EG when mixed to a fluid consistency
- Adhesion (dry, water, heat, freeze-thaw): ≥1 MPa
- Temperature resistance: -30°C + 70°C

APPLICATION

GLUING/BONDING:

- Amount of water needed to achieve normal consistency: 26 to 28%.
- Amount of water needed to achieve fluid consistency: 33 to 35 %
- Resting time before use: Approx. 5 mins.
- Tack free time: 30 ± 10 mins
- Adjustability time: 20 mins
- Manipulation time (workable life): 90 mins
- Waiting time before grouting: 8 to 24 hrs
- Ready to walk on after: 24 to 48 hrs

In cold weather, if mixed to a fluid consistency, you may need to wait up to 72 hours for the product to dry before grouting. **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, clean and dry. If there is any residual laitance, sand and then brush and vacuum to remove any dust.
- Depending on the substrate (see above), a primer may be required. In this case, apply **PRB ACCROSOL AG** or **PRB ACCROSOL PLUS** at a rate of 150 to 300 g/m² and leave to dry for 2 to 4 hrs before applying the adhesive mortar.

They must also be flat and even. For uneven surfaces, patch locally with **PRB • COL DUO FLEX** (at a thickness of up to 10 mm) the day before laying. Wait 24 to 48 hrs before laying.

PRODUCT PREPARATION

- Mix 1 bag of 25kg of PRB • COL DUO FLEX to the desired consistency with clean water:
 - 6.5 to 7 L for normal consistency,
 - 7.5 to 8.75 L for a fluid consistency.
- Mix with an electric mixer at low speed until you obtain a smooth, lump-free paste.

APPLICATION

- Spread **PRB • COL DUO FLEX** over the substrate and adjust the thickness with a notched trowel (to be chosen according to the size of the covering and the flatness of the substrate).
- 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.

- When back buttering, apply a thin layer of 1 to 2 mm (mixed to a normal consistency) to the back of the tile. You should always back butter tiles with low porosity.
- Fluid consistency: check the transfer regularly when laying.

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.