

PRB • COL DOUBLE FLEX S2

HIGHLY FLEXIBLE ADHESIVE MORTAR FOR NORMAL & FLUID CONSISTENCIES



The +s of PRB • COL DOUBLE FLEX S2

- + Extremely high flexibility (S2)
- + Suitable for very large tile sizes: $\leq 40,000 \text{ cm}^2$
- + Suitable for laying tiles on a fresh screed after 48 hrs
- + Suitable for substrates subject to special requirements
- + Normal & fluid consistency: for simple bonding and back buttering

Class C2S2 ET (normal)
Class C2S2 EG (fluid)



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 40,000 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 40,000	—	7 to 8

Fluid consistency

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

COLOUR: White & grey.

PROHIBITED SUBSTRATES

Do not apply to:

- Floors subject to rising damp (apply PRB ACCROSOL TECHNIC).
- Bare plaster.
- Metal.

COMPATIBLE COVERINGS

The floor coverings must meet the requirements of the applicable French DTU Standard.

TYPES:

PRB • COL DOUBLE FLEX S2 is suitable for laying the following large-size tiles and coverings, regardless of their porosity:

- Glazed or extruded stoneware (enamelled or non-enamelled).
- Fully glazed stoneware.
- Natural stone:⁽⁴⁾ limestone, marble or granite.
- Terracotta, pâte de verre & earthenware.

- (4) Use PRB COL DOUBLE FLEX S2 - White. Stain test in accordance with DTU/Technical specifications.

SIZES:

PRB • COL DOUBLE FLEX S2 is suitable for laying large tiles and coverings:

- Interior walls: up to 36,000 cm².
 - Exterior walls: up to 3,600 cm²*
 - Interior floors: up to 40,000 cm².
 - Exterior floors: up to 10,000 cm²*
- * For sizes greater than 3,600 cm², please contact the PRB technical department.

NB: For floors, the applicable standards and regulations regarding the slip resistance of the tiles must be respected. Limitation of the size according to the substrate: see the selection guides.

APPLICATION CONDITIONS

- Ambient temperatures 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.
- Do not interfere with existing expansion and dividing joints.
- Leave space for an edging joint between the tiles and the vertical walls.
- Large size and "slim" tiles: refer to the manufacturer's instructions.

AREA OF USE

USES

Adhesive mortar for laying tiles on:

- New and renovation work.
- Interior and exterior walls and floors.
- Floors up to category U4, P3.

REFERENCE DOCUMENTS

- French DTU standard 52.2 and Technical Specifications in force.
- Tile manufacturer's instructions.
- Refer to Technical Specification 3666 (for large sizes) for reduced substrate and tile tolerances.

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):

- Liquid cement screeds.⁽²⁾
- Fresh cement screed (after 48 hrs).
- 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.
- Plasterboard (water-resistant or standard).
- Autoclaved aerated concrete.
- Terracotta tile walls.
- Old bonded tiles⁽¹⁾ (glued or grouted).
- Old adherent and resistant paint.⁽⁴⁾
- Rigid PVC tiles.⁽¹⁾
- Wooden panels (chipboard or plywood).⁽³⁾
- Glued mosaic parquet flooring.⁽³⁾

- (1) The use of primer to improve the preparation process is optional (see the PRB Process Sheets).
- (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: PRB ACCROSOL AG, PRB ACCROSOL PLUS or PRB ACCROSOL EXPRESS.

- Can be used in swimming pools (please contact us beforehand).

Other uses: see the selection guides.

TECHNICAL CHARACTERISTICS

INGREDIENTS

- Fluid binders.
- Fillers.
- Specific additives.
- Incorporated resin plasticiser with high wetting and adhesion properties.

CHARACTERISTICS

POWDER:

- Grain size: $\leq 0.6 \text{ mm}$

PASTE:

- pH (alkaline): approx. 12.5.

PERFORMANCES ACCORDING TO THE APPLICABLE STANDARDS:

- Class - according to EN 12004-1:
 - C2 S2 ET when mixed to a normal consistency.
 - C2 S2 EG when mixed to a fluid consistency.
- Adhesion (dry, water, heat & freeze-thaw): $\geq 1 \text{ MPa}$.
- Deformability: $\geq 5 \text{ mm}$.
- Temperature resistance:
 - 30°C + 70°C.

APPLICATION

- Amount of water needed for normal consistency: 26 to 28 %.
- Amount of water needed for a fluid consistency: 30 to 32%.
- Resting time before use: Approx. 5 mins.
- Tack free time: 30 \pm 10 mins.
- Adjustability time: 20 to 30 mins.
- Manipulation time (workable life): Approx. 2 hrs.
- 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.
- In the case of residual laitance, sand and remove dust by brushing and vacuuming.
- 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.
- For a faster drying time (at least 30 minutes depending on the substrate), apply PRB ACCROSOL EXPRESS at a rate of 150 to 300 g/m².

They must also be flat and even. For uneven surfaces, patch locally with PRB • COL DOUBLE FLEX S2 (at a thickness of at least 10 mm) the day before laying. Wait 24 to 48 hrs before laying.

PRODUCT PREPARATION

- Mix 1 x 25 kg bag of PRB • COL DOUBLE FLEX S2 with clean water until you obtain the desired consistency:
 - 6.5 to 7.0 l for a normal consistency.
 - 7.5 to 8.0 l for a fluid consistency.
- Mix with an electric mixer at low speed until you obtain a smooth, lump-free paste.
- Leave to stand for 5 minutes.

APPLICATION

- Spread PRB • COL DOUBLE FLEX S2 over the substrate and adjust the thickness with a notched trowel (to be chosen according to the size of the tile and the evenness 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. Back buttering is also recommended for exterior floors.
- 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, use a product from the PRB • JOINT range - these products are ready to use and suitable for a variety of applications (please refer to the technical data sheets).

PRECAUTIONS FOR USE

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

Technical Data Sheet - 7 December 2023

This technical data sheet is provided for the sole purpose of informing our customers about the characteristics of the product. Its content is based on up-to-date information. Before using the product, the user is advised to check whether this sheet has been replaced by a more recent version. The warranty conditions for our products, processes and systems are specified at the beginning of this catalogue. You can also find them, along with all regulatory and safety documents, online at www.prb.fr.



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TILING: ADHESIVE MORTARS

ADHESIVES
& FLOORING