

PRB • COL DUO MAX

LIGHTWEIGHT DEFORMABLE ADHESIVE MORTAR WITH DOUBLE MIXING RATE



The of PRB•COL DUO MAX +

- + Easier working conditions: lighter bag with handle and no dust
- + Grouting possible after 4 h (grey), 8 h (white)
- + Fluid: single application up to 10,000 cm²
- + Smooth texture: easy to apply
- + Good slip resistance

DUST FREE*
reduced dust emissions

IB
QUALITE POUR LE BATIMENT
N° 49 MC 516



Class C2 S1 E (normal)
Class C2 S1 EG (fluid)

AREA OF USE

USE

- New build and refurbishment.
- Interior & exterior walls and floors.
- Premises up to U4, P3.
- DTU 52.2 and applicable CPTs.
- Adhesive mortar certification.

AUTHORISED SUBSTRATES

- Concrete.
- Concrete floors of unheated buildings and over crawl space.
- Cement mortar screeds using cement mortar.
- Single layer cement mortar render (class CS III and CS IV).
- Sanded Liquid Sealing System.

FOR INTERIOR USE (SEE PROCESS SHEETS):

- Liquid cement screed(2).
- Anhydrite screed(3) with less than 0.5% moisture.
- Minimum P3 class floor compounds.
- Dry screeds.
- PCBT, PCR, PRE underfloor heating.

- Plasterboards whether water repellent or not.
- Cellular concrete.
- Terracotta tile partitions.
- Old adhesive tiles(1) (bonded or embedded).
- Old adherent and resistant paints (3).
- Rigid PVC tiles (1).
- Wood panels (CTBH, CTBX, OSB) (3).
- Bonded mosaic wood flooring (3).

- (1) Use of a primer to improve the preparation is optional (Refer to the PRB Technique sheets).
- (2) Primer optional, on condition that the surface condition is cohesive and dust-free.
- (3) After preparation and combined with **PRB ACCROSOL AG** or **PRB ACCROSOL PLUS** or **PRB ACCROSOL EXPRESS** primer.

Other uses: refer to the selection guides.

PACKAGING

- 15 kg-paper bag
- 0.735 t-pallet, i.e. 49 15 kg-bags

STORAGE: 18 months.

CONSUMPTION

As localised smoothing compound: 1.2 kg/m²/mm thickness.
Choice of notched trowels and method depending on the format and purpose.
As an indication according to DTU/CPT, in kg/m²:

Notched trowel	Single application	Double application	Normal consistency
U6	1.8	3	
U9	2.3 to 2.6	to 4.2	
DL 20	3.5	4.2	
Formats > 3,600 cm ² : 4.6			

Notched trowel	Sizes in cm ²	Single coat application	Fluid consistency
U9	120 to 1,200	2.3 to 2.6	
DL 20	1,200 to 2,200	3.2 to 3.5	
DL 20	2,200 to 3,600	3.5	
DL 20	3,600 to 10,000	3.5 to 4.8	

See consumption details at the back of the "TILER" catalogue.

COLOUR: Grey and White.

PROHIBITED SUBSTRATES

Do not apply on:

- Ground subject to rising damp (use **PRB ACCROSOL TECHNIC**).
- Directly on plaster.
- Metal.

ASSOCIATED COATINGS

TYPE:

- PRB•COL DUO MAX** is especially recommended for the application of the following coverings of any porosity:
- Vitrified stoneware, extruded stoneware (enamelled or not).
 - Fully vitrified stoneware.
 - Terracotta, glass paste, faience.
 - Natural stone⁽¹⁾: limestone, marble, granite.
- ⁽¹⁾ Use white **PRB•COL DUO MAX**.
Stainability test according to DTU/CPT.

FORMAT:

PRB•COL DUO MAX is used to bond large sized coatings:

- Interior walls: up to 3,600 cm².
- Exterior walls: up to 3,600 cm².
- Interior floors up to 3,600 cm² and 10,000 cm² for new build.
- Exterior floors: up to 3,600 cm²

N.B.: For floors, it is advisable to respect the standards or regulations in force with respect to the slipperiness of tiles. Format limits depending on the substrate: read selection guides.

APPLICATION CONDITIONS

- Between 5°C and 35°C.
- Do not apply on frozen or thawing substrates, or substrates that are hot or in direct sunlight, soaked or damp.
- Follow the existing expansion joints and partitioning joints.
- Reserve an edge joint between the tiles and vertical walls.

TECHNICAL CHARACTERISTICS

COMPOSITION

- Hydraulic binders.
- Fine light fillers.
- Specific additives.
- Plasticizing resin combined with high wetting and adhesive power.

PRODUCT

POWDER:

- Density: 0.8 ± 0.1 t/m³.
- Grading: ≤ 300 µm.
- alkaline pH: 12.5 ± 0.5

AVERAGE PERFORMANCES IN HARDENED CONDITION:

- Class as per EN 12004:
 - C2 S1 ET when mixing to a normal consistency.
 - C2 S1 EG mixing to a fluid consistency.
- Adherence (dry, water, heat, freeze-thaw): ≥ 1 MPa.
- Resistance to temperatures:
 - 30°C + 70°C.

APPLICATION

PRB COL DUO MAX	Grey	White
Normal consistency mixing rate	32 to 34 %	
Fluid consistency mixing rate	39 to 41 %	
Open time	30 ± 10 min	
Adjustable time	20 to 30 min	
Normal consistency pot life	About 1 h	About 2 h
Fluid consistency pot life	About 1 h 30	About 2 h 30
Time before grouting	starting from 4 h	8 to 24 h
Time before walkable	12 to 24 h	24 to 48 h

N.B.: These values are laboratory testing values determined using applicable technical guides. The preparation conditions may modify them significantly.

APPLICATION

Refer to PRB Process Sheets

SUBSTRATE PREPARATION

- Substrates must have surfaces that are strong and clean and dry. In the case of residual laitance, rub down then remove dust by brushing - vacuuming.
- Depending on the substrates, (see opposite) a primer may be essential, if so apply **PRB ACCROSOL AG** or **PRB ACCROSOL PLUS** at a rate of 150 to 300 g/m² and leave to dry 2 to 4 h before spreading the adhesive mortar.
- For a quicker drying time, 30 min minimum depending on the substrate, use **PRB ACCROSOL EXPRESS** at a rate of about 150 to 300 g/m².

- They must also be perfectly flat. Otherwise, level locally using **PRB•COL DUO MAX** the day before laying, up to 10 mm. Wait 24 to 48 h before laying.

PRODUCT PREPARATION

- Mix 1 15 kg bag of **PRB•COL DUO MAX** to the required consistency using clean water:
 - 4.8 to 5.1 litres for a normal consistency.
 - 5.8 to 6.2 litres for a fluid consistency.
- Mix using a low speed electric mixer until a consistent paste is obtained without lumps.

APPLICATION

- Spread **PRB•COL DUO MAX** onto the substrate and adjust the thickness using a serrated float (choice of the serration depending on the cover format and the flatness of the substrate).
- Lay the covering on fresh grooves and press down hard or beat it to obtain a good transfer and to dispel air.
- For double adhesive application (normal consistency), apply a thin coat of 1 to 2 mm on the back of the tiles. Double application is mandatory for all tiles that are not sufficiently porous.
- Fluid consistency: check the transfer regularly whilst laying.

N.B.: The tiles must be cleaned with the sponge immediately after their installation, likewise the tools and stains must be cleaned with water immediately after use.

GROUTING - FINISH

- Grouting can be carried out starting from 4 h after, depending on weather conditions using **PRB COL DUO MAX Grey**, or the next day using **PRB COL DUO MAX White**.
- For grouting, use products from the **PRB•JOINT** line that are ready-to-use and suitable for different uses (see technical sheets).

PRECAUTIONS FOR USE

- Contains cement and/or lime.
- Refer to the regulatory labels on the packaging and to the safety data sheet before use.

Technical sheet - July 2018