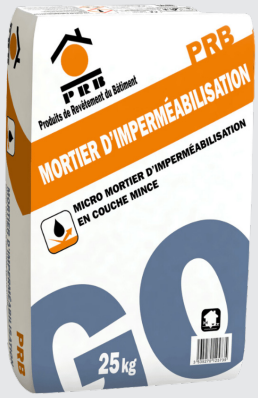
PRB MORTIER D'IMPERMÉABILISATION

THIN COAT WATERPROOFING MICRO-MORTAR

Benefits of the PRB MORTIER D'IMPERMÉABILISATION

- Interior / exterior (positive pressure and negative pressure) for below ground walls, ponds, swimming pools, basements, cellars, etc
- Direct application on masonry (manual or sprayed)
- The below ground part can remain uncovered
- Very good adhesion and shock resistance once hard



KEY PRODUCT INFORMATION

- 25 kg paper bag.
- 0.98 t pallet, i.e. 42no 25 kg bags.

COLOURS: Grey

STORAGE: 12 months

CONSUMPTION

Consumption varies depending on the substrate condition (type, flatness, roughness)and application.

NB: The minimum thickness at all points must be at least 3 mm to guarantee correct resistance to the passage of water.

As a 2 - 4 mm thickness approx. 5 - 8m² per 25kg bag

- First layer of 1 to 2 mm using from 1.5 to 2.5 kg/m²
- Second layer of 1 to 2 mm using from 1.5 to 2.5 kg/m²

EN 998-1 Type GP Class: CS IV W2
EN 1504-2 Thin surface protection mortar

USAGE GUIDE

WHERE TO USE?

- Product can be used to treat the below ground walls of buildings in order to prevent the passage and ingress of water.
- Foundation walls, basements, cellars, elevator pits, garages, technical rooms, basement garages below ground access walls, boiler rooms, etc.
- Private swimming pools (concrete pools).
- Paving directly on the ground.
- Damp courses.
- Tanking on a concrete or suitable masonry substrate.
- Other uses: Contact the PRB technical department.

SUITABLE SUBSTRATES:

✓ Poured concrete.

✓ Suitable concrete block masonry built using traditional or thin joints, for rendering.

✓ Cement render basecoats for new build or existing structures.

✓ Sound, well constructed masonry.

SCAN THE QR CODE BELOW TO FIND THE MATERIAL QUANTITY NEEDED

PROHIBITED SUBSTRATES

✗ All Gypsum-based substrates (Plaster).

✗ Paints, Thin coat renders.

✗ Directly on wood.

✗ Old and weak substrates.

✗ Unstable walls and floors, or those at risk of cracking.

Do not use:

✗ On above ground facade walls (as a replacement for a single-coat or conventional weatherproofing render).

✗ To level or straighten walls

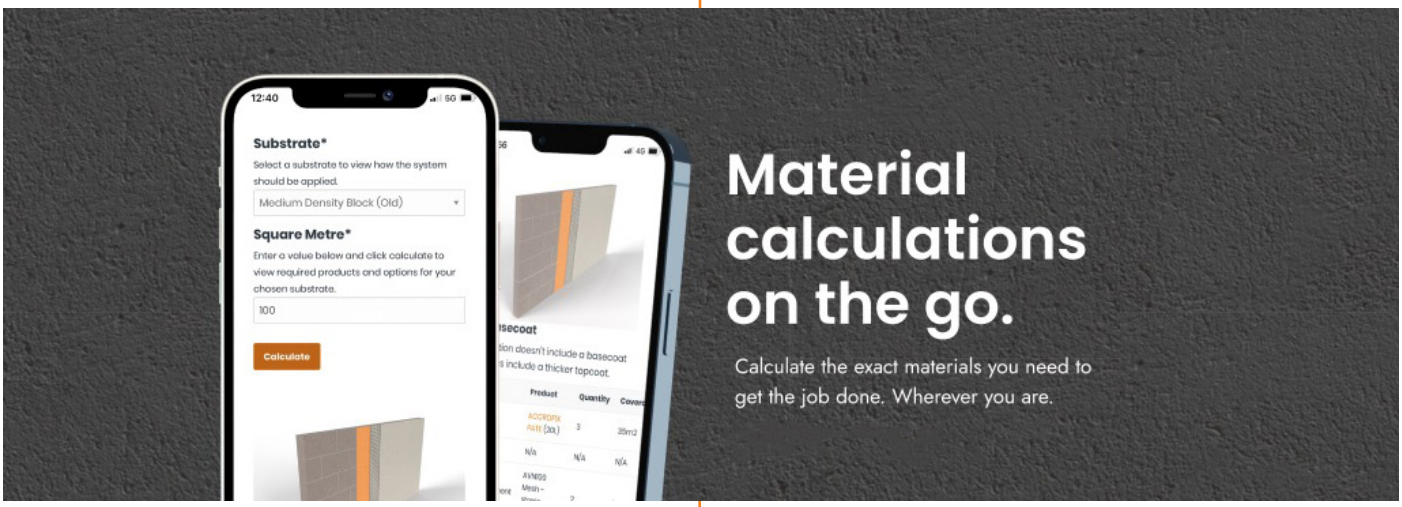
✗ As a replacement for flat-roof sealing.

ASSOCIATED COATINGS

- Any suitable interior and exterior water based paints.
- Thick plastic coverings.
- Single-coat hydraulic render or traditional cement render.
- Tiling bonded using C2/C2S PRB adhesive mortars or **PRB COLJOINT EPOXY**.

APPLICATION CONDITIONS

- Between 5°C and 35°C.
- Do not apply on substrates that are frozen or thawing, hot or exposed to full sunlight, soaked or exposed to driving rain and strong winds.



TECHNICAL CHARACTERISTICS

COMPOSITION

- Hydraulic binders.
- Fillers, quartz sand.
- Water retention agents, setting regulators.
- Integral waterproofing.

PRODUCT

POWDER:

- Max. grading: 1 mm

PASTE:

- Density: 1.85 ± 0.1 t/m³
- pH (alkaline): 12.5 ± 0.5

COMPOUND PERFORMANCE IN HARDENED CONDITION:

- Density: 1.6 to 1.7
- Bending strength: 4.5 to 7.5MPa
- Compressive strength: ≥ 20 MPa
- Water passage at a pressure of 0.5 MPa: None
- Water passage at a negative pressure of 0.5 MPa: None

PERFORMANCE AS PER EN 998-1. CS IV CATEGORY GP STANDARD USE RENDER MORTAR:

- Compressive strength: CS IV (≥ 6 N/mm²)
- Permeability to water vapour (coef): μ ≤ 35 (tabulated value)
- Thermal conductivity (λ 10, dry): 0.76 W/m²K (tabulated value)
- Adherence/Breakage: ≥ 0.5 N/mm² A or B or C
- W2 water absorption: C ≤ 0.20 kg/m². min0.5
- Fire behaviour (non-combustible): A1
- Durability: PND

MICRO-MORTAR PERFORMANCE AS PER EN 1504-2. THIN SURFACE PROTECTION MORTAR:

- Adherence to concrete blocks: > 0.5 MPa
- Adherence to concrete: ≥ 1 MPa
- Permeability to water vapour: class 1
- Capillary absorption and permeability to water: W < 0.1 kg/m² h0.5
- Thermal/thermal shock without salt compatibility: ≥ 1 Nmm²

PREPARATION

- Mixing rate: 6.5 to 7.1 L clean water / 25kg bag.
- Mixing time: 2 to 3 mins
- Batch life time: 60 mins. max.
- Out of water time: 2 to 6 hrs
- Time between applications: 6 to 24 hrs
- Max. thickness per layer: 2 mm
- Max. total thickness: 3 - 4 mm

N.B.: These values are standard laboratory or site testing values. The preparation conditions and the type and wear of the material used may modify them significantly.

PREPARATION

1. SUBSTRATE PREPARATION

- Substrates must be clean (free of any releasing agent), free of dust, stable, re-fill holes and voids beforehand.
- The pointing of masonry elements (bricks, stone, blocks, etc.) must be correctly filled and levelled.
- Wet the substrates properly and wait for the surfaces to have dried before applying the waterproofing mortar.

2. MORTAR PREPARATION

- Use an electric mixer at slow speed until an even slurry paste is obtained without lumps to the required consistency.

6.5 to 7.1 L of clean water per 25 kg bag.

3. SPRAYING EQUIPMENT SETTINGS

Mortar pump

- Water pressure setting: 8 to 10 bars
- Paste operating pressure: 8 to 10 bars
- Spray nozzles (min. Ø): 10 mm
- Apply using a machine and tighten using a stainless steel float.

4. APPLICATION AND FINISH TYPE

MANUAL

- Apply a first 1 - 2 mm layer (1.5 to 2.5 kg/m²)using a brush or a stainless steel float to perfectly cover the substrate, leaving no voids.
- Leave to dry for 6 to 24 hours.
- Lightly dampen the surface then apply a second 1 - 2 mm layer (1.5 to 2.5 kg/m² layer perpendicular to the first layer and leave with a roughened finish.

UNDER-TILE WATERPROOFING (SWIMMING POOL, PAVING etc)

- Use **PRB MORTIER D'IMPERMÉABILISATION** in two perpendicular layers at a consistency suitable for smoothing using a stainless steel float.
- Create the first reinforced layer using **PRB AVN MESH** to the entire surface area.

COVERING AND BACKFILLING TIME

- Covering with a mortar render: ≤ 72 hrs.
- Tiling: ≥ 7 days
- Paint, Thin coat finishes: > 15 days
- Backfilling: ≥ 7 days

HEALTH & SAFETY

- Contains cement and lime.
- May produce an allergic reaction. Harmful if inhaled, irritating to eyes and skin. Wear suitable protective clothing, gloves and eye/face protection.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical help. After contact with skin, wash immediately with plenty of soap and water.
- Keep out of the reach of children.
- For further information, please read the Material Safety Data Sheet for this product..

01242 524228
technical@prbsystems.co.uk
www.prbsystems.co.uk
Montis Court, Bouncers Lane, Cheltenham, GL52 5JW