

PRB MORTIER FONDATION

THIN-LAYER MICRO-MORTAR FOR WATERPROOFING UNDERGROUND

WALLS & FOUNDATIONS



PRB MORTIER FONDATION
WATERPROOFING AND PROTECTION

The +s of PRB MORTIER FONDATION

- +** Can be applied directly to breeze blocks, bricks and concrete
- +** Excellent adhesion to the substrate
- +** Good impact and pressure resistance
- +** Suitable for interior and exterior use

PACKAGING

– Paper bag containing 25 kg.

STORAGE LIFE: 12 months.

CONSUMPTION/USE

Consumption varies according to the substrate (nature, flatness & roughness). Please note: the minimum thickness must be at least 3 mm at all points to ensure resistance to the passage of water.

- Apply the first coat at a rate of 1.5 to 3 kg/m².
- Apply the second coat at a rate of 1 to 2 kg/m².

COLOUR: Grey.



EN 998-1 Type GP CS category IV



AREA OF USE

USES

- Designed to protect and waterproof the exterior and interior of underground walls in buildings prior to infilling.
- Foundation walls, basements, cellars, garages, utility areas, basement garage walls, boiler rooms (see additional waterproofing and drainage layer for category 2 walls as defined in DTU 20.1).
- Capillary breaks & sealing.
- Reduces the air permeability of walls.

- For other uses, please contact the PRB technical department.
- DTU 20.1 Standard XP 10-202.
- DTU 14.1 NF P 11-221.

SUITABLE SUBSTRATES

- Cast-in-place concretes (DTU 23.1).
- Breeze block or brickwork for underground walls (DTU 20.1) with standard or narrow joints, to be rendered/coated (vertical joints must be filled in beforehand).
- Cement undercoats.

PROHIBITED SUBSTRATES

- All gypsum-based substrates (plaster).
- Paint & thick paint coatings.
- Bare wood.
- Old and weak substrates.
- Unstable walls and floors or those at risk of cracking.

DO NOT USE:

- On elevated facade walls.
- For levelling or facing walls.
- As a replacement for waterproofing on flat roofs.
- Do not use in areas with back pressure.

APPLICATION CONDITIONS

- Between 5°C and 35°C.
- Do not apply to frozen, thawing, hot or damp surfaces. Do not apply to surfaces in full sunlight or during heavy rain and strong winds.

TECHNICAL CHARACTERISTICS

INGREDIENTS

- Fluid binders.
- Fillers & fine sands
- Water-retention agents & setting agents.
- Water-repellent agents.

PRODUCTS

POWDER:

- Max. grain size: 1 mm.

PASTE:

- Density: 1.8 ± 0.1.
- pH (alkaline): 12.5 ± 0.5.

PERFORMANCE WHEN HARDENED:

- Density: 1.6 to 1.7.
- Flexural strength: 4.5 to 7.5 MPa.
- Compressive strength: ≥ 20 MPa.
- Water permeability at a pressure of 0.5 MPa (min thickness: 3 mm): None.
- Compressive strength: CS IV (≥ 6 N/mm²).
- Water vapour permeability (co-eff.): μ ≤ 35 (established value).
- Thermal conductivity (λ, 10, dry): 0.76 W/mK (established value).

- Water absorption (Wc2): Capillarity ≤ 0.20 kg/m².min^{0.5}.
- Durability: NPD.

APPLICATION

- Mixing ratio (amount of water needed): 25 to 27%.
- Mixing time: 2 to 3 min.
- Mixture handling time: 60 mins max.
- Setting time - before contact with water: 2 to 6 hrs.
- Setting time - between layers: 6 to 24 hrs.
- Maximum working thickness: 5 mm.
- Minimum effective thickness: 3 mm.

NB: These values are estimates based on laboratory or on-site testing. The conditions of use, the type of material used and its level of wear and tear can significantly alter these values.

UTILISATION

SUBSTRATE PREPARATION

- Surfaces must be clean (free of formwork removal oil), dust-free, stable, free of water run-off, and any large chips, cracks or dents must be filled in beforehand.
- Masonry joints (breeze blocks etc.) must be properly filled and levelled.
- Thoroughly dampen the substrate and wait until the surface has dried before applying PRB MORTIER FONDATION.

MORTAR PREPARATION

- In order to obtain a smooth mixture, we recommend mixing with an electric mixer at low speed until you obtain a smooth, lump-free paste of the desired consistency.
- 6.25 to 6.75 litres of clean water per 25 kg bag.

APPLICATION

MANUAL APPLICATION

- Apply a first coat at a rate of 1.5 to 3 kg/m² with a brush or stainless steel trowel, ensuring that the surface is completely covered.
- Leave to dry for 6 to 24 hours.
- Apply a second coat at a rate of 1 to 2 kg/m² by trowelling/brushing in the opposite direction to the first coat and after slightly moistening the first coat.

WAITING TIME BEFORE INFILLING:

- Infilling: 5 to 7 days minimum

PRECAUTIONS FOR USE

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