

# PRB CLASSIC F

HEAVY, FINE-GRAIN SINGLE-LAYER RENDER UNDERCOAT



## The +s of PRB CLASSIC F

- + Render base coat for waterproofing type Rt3 (high peel resistance) exterior walls and interior walls
- + Suitable for ceramic coatings, paints and thick paint coatings, and hydraulic renders
- + Can be left bare and suitable for use on underground walls

### PACKAGING

– Paper bag containing 25kg.

**STORAGE LIFE:** 18 months.

### CONSUMPTION/USE

Consumption varies according to the substrate (nature, flatness & roughness).

**NB:** the minimum finished thickness required to guarantee waterproofing is 10mm at all points.

- Minimum thickness of 10mm: 20 kg/m<sup>2</sup>

**NB:** For decorative rendering, the minimum finished thickness required is 5mm at all points.

- Minimum thickness of 5mm: 10 kg/m<sup>2</sup>

**COLOUR:** Grey.



EN 998-1 Type OC3  
CS category IV



## AREA OF USE

### USES

- Exterior and interior walls on all types of residential, commercial or industrial buildings.
- Interior walls of houses or buildings
- Sound and sturdy old buildings (please contact us before use).
- Joints (minimum 8mm) for brick, stone and ceramic facades.
- French DTU Standards 20.1 & 23.1, 26.1 (P1-1, P1-2 and P2) and 52.2.

### SUITABLE SUBSTRATES

(see Selection Guide)

- Cast-in-place concretes (DTU 23.1).
- Breeze block masonry (DTU 20.1) with standard or narrow joints.
- Cement undercoats and mixes (DTU 26.1).
- Old masonry and other substrates (please contact us beforehand).

### PROHIBITED SUBSTRATES

- All gypsum-based substrates (plaster).
- Paint & thick paint coatings.
- Bare wood.
- Horizontal or sloping surfaces.

### COMPATIBLE COATINGS & COVERINGS

- All unsaponifiable interior and exterior paints.
- Thick paint coatings applied in accordance with the French DTU Standard 59.1.
- Semi-thick coatings.
- Decorative and ornamental paints - type D2, D3...
- I1 to I4 waterproofing paint.
- Single-coat and topcoat hydraulic renders.
- Ceramic coverings bonded with adhesive mortar or adhesives in accordance with the French DTU 52.2.

### APPLICATION CONDITIONS

- Between 5°C and 35°C.
- If the temperature exceeds 30°C, special protective measures must be taken.
- 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

- Binders (cement, natural hydraulic lime & high calcium lime).
- Fillers, quartz sands and aggregates.
- Water-retention agents & setting agents.

### PRODUCTS

#### POWDER:

- Max. grain size: 2mm

#### PASTE:

- Water retention: 91 to 97%
- pH (alkaline): 12.5 ± 0.5

### PERFORMANCE

#### WHEN HARDENED:

- Density: 1.6 to 1.8 t/m<sup>3</sup>
- Modulus of elasticity: 7,500 to 14,000 MPa
- Flexural strength: 2 to 3.5 MPa

#### PERFORMANCE ACCORDING TO EN 998-1 - SINGLE-LAYER MORTARS:

- Compressive strength: CS IV (≥ 6 N/mm<sup>2</sup>)
- Water permeability after freezing: ≥ 1 cm<sup>3</sup>/cm<sup>2</sup>
- Water vapour permeability: μ < 35
- Thermal conductivity (λ 10, dry): 0.76 W/mK (established value)

- Durability/adhesion after freezing/Rupture: ≥ 0.2 N/mm<sup>2</sup> - A, B or C
- Water absorption (Wc2): Capillarity ≤ 0.20 kg/m<sup>2</sup>.min<sup>0.5</sup>
- Reaction to fire (non-combustible): A1 (M0)

### APPLICATION

- Mixing ratio (amount of water needed): 14 to 16%
- Mixing time: 3 to 7 mins
- Mixture handling time: 60 mins max.
- Setting time - before contact with water: 4 to 6 hrs
- Setting time - between layers: 1 to 48 hrs

- Maximum thickness per layer: 20mm
- Maximum working thickness: 30mm

**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

- Substrates must be clean, dust-free, stable, and any large chips, cracks or dents must be filled in beforehand.
- In hot weather or dry or gusty winds, the substrate should be wetted the day before application and again prior to application if necessary to prevent the render drying out.
- Please refer to "Substrate preparation" and "Applying single layer renders depending on the condition of the substrate".

### MORTAR PREPARATION

#### Mortar pumps/sprayers - Concrete mixers (batch mixers)

- Mix PRB CLASSIC F with 3.5 to 4 litres of clean water per 25 kg bag for 5 mins.
- The water ratio and mixing time should be kept as constant as possible to ensure an even application.

### PUMP/SPRAYER SETTINGS

#### Mortar pump

- Water pressure setting: 12 to 14 bars
- Paste operating pressure: 18 to 20 bars
- Output flow rate: 20 to 26 L/min
- Spray nozzles (min. Ø): 12mm

#### Spray guns

- Air pressure: 6 to 8 bars

#### Manual application

- Once the product is mixed to a very plastic consistency, it can be applied with a mortar trowel, overlapping slightly.
- Level the base coat by smoothing the render with a straight edge.

### APPLICATION AND TYPES OF FINISH

PRB CLASSIC F can be applied as follows:

- Levelled and compacted to support a ceramic coating, roughened or scraped to support a decorative cement/lime-based coating, or float-finished in two-coats before applying paint or a thick paint coating.

### PRECAUTIONS FOR USE

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