

PRB 85

MEDIUM-GRAINED SEMI-LIGHTWEIGHT SINGLE-COAT RENDER



The **+**s of PRB 85

- +** Waterproofing and decoration for Rt2, Rt3 exterior walls and interior walls
- +** Scraped and rustic finish
- +** Suitable for use on underground walls

PACKAGING

– Paper bag containing 25kg.

STORAGE LIFE: 18 months.

CONSUMPTION/USE

The consumption varies depending on the substrate (type, flatness, roughness, etc.). The thickness at all protruding points of the facades must be at least 10 mm to ensure proper waterproofing on Rt3 (high peel resistance) substrates.

Concrete substrates and render undercoats:

For decorative rendering, the thickness must be 5mm at all points.

- Average consumption : 1,6 kg/m²/mm thickness.

COLOUR: 100 PRB colours and Sun + colours.



EN 998-1 Type OC2
CS category III



AREA OF USE

USES

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

SUITABLE SUBSTRATES

(see Selection Guide)

- Cast-in-place concretes (DTU 23.1).
- Brick or breeze block masonry (French DTU 20.1) with standard or narrow joints.
- Cement undercoats and mixes (DTU 26.1).
- Old masonry and other substrates: please contact us before use.

PROHIBITED SUBSTRATES

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

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.
- Do not use strong colours (dark range) at temperatures below 8°C and with high humidity (increased risk of efflorescence or carbonation).
- Special conditions: see **"Substrate preparation"**.

TECHNICAL CHARACTERISTICS

INGREDIENTS

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

PRODUCTS

POWDER:

- Max. grain size: 3.15 mm

PASTE:

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

PERFORMANCE

WHEN HARDENED:

- Density: 1.4 to 1.8 t/m³
- Modulus of elasticity: 5,000 to 10,000 MPa
- Flexural strength: 1.5 to 2.7 MPa

PERFORMANCE ACCORDING TO

EN 998-1 - SINGLE LAYER MORTARS:

- Compressive strength: CS III (3.5 to 7.5 N/mm²)
- Water permeability after freezing: <1 cm³/cm²
- Water vapour permeability: μ <35
- Thermal conductivity (λ, 10, dry): 0.54 W/(m.K)

- Durability/adhesion after freezing/Rupture: > 0.2 N/mm² A, B or C

- Water absorption (Wc2):

Capillarity ≤ 0.20 kg/m².min^{0.5}

- Reaction to fire (non-combustible): A1 (M0)

APPLICATION

- Mixing ratio: 14 to 18%
- Mixing time: 3 to 7 mins
- Mixture handling time: 60 mins max.
- Setting time - before contact with water: 4 to 6 hrs
- Setting time - before scraping: 3 to 24 hrs
- Setting time - between layers: 1 to 48 hrs

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

- Substrates must be clean, dust-free, stable, and any large chips, cracks or dents must be filled in beforehand.
- In hot weather and/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 from 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 each 25kg bag of **PRB 85** with 3.5 to 4.5 litres of clean water for 5 minutes.
- The water dosage and mixing time should be as consistent as possible to ensure regular colour throughout.
- Similarly, if using batches from different dates, these should be mixed proportionally to avoid irregular colouring.

PUMP/SPRAYER SETTINGS

Mortar pump

- Set the water pressure to: 12 to 14 bars
- Paste operating pressure: 18 to 24 bars
- Output flow rate: 14 to 18 L/min
- Spray nozzles (min. Ø): 12 mm

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 FINISHES

Fine scrape, rough scrape, rustic, roughcast, & float finish (in small areas).

- Apply in accordance with the "Types of Finishes" section.
- See the "Selection Guide" for all possible finishes.

- Glued tiles (please contact us before applying):

For facades:

Natural terracotta facing tiles on large surfaces up to 28m (DTU 52.2).

For interior walls:

Compatible with all tiles listed in the French DTU Standard 52.2.

PRECAUTIONS FOR USE

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