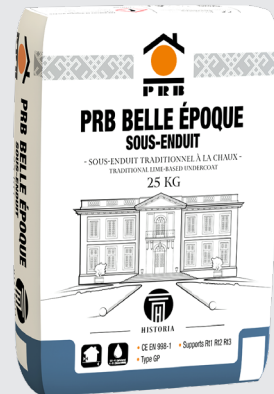


PRB BELLE ÉPOQUE SOUS-ENDUIT

TRADITIONAL LIME BASE COAT RENDER & POINTING MORTAR

The PRB BELLE ÉPOQUE SOUS-ENDUIT

-  First base coat(s) of a traditional lime render system in two or three layers on walls
-  Ideal for older historic or listed buildings, particularly those constructed with lime mortar as fully breathable
-  Suitable as a traditional bedding and repointing mortar



KEY PRODUCT INFORMATION

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

CONSUMPTION

Consumption rates provided will vary according to the substrate conditions (type, flatness, roughness).

10 mm thick – 1.45m² per 25 kg bag – approx. 17 kg per m²

15 mm thick – 1.0m² per 25 kg bag – approx. 25 kg per m²

20 mm thick – 0.72m² per 25 kg bag – approx. 34 kg per m²

The minimum thickness applied will vary depending upon application finish and weather rating zone but must be applied at the specified thickness to guarantee the weatherproofing function.

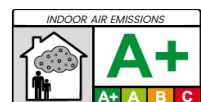
For pointing / re-pointing a 20mm deep x 10mm wide joint, approx. coverage is 9 liner metres, however the consumption will vary depending on the thickness and depth of the pointing to be carried out. For guidance contact the PRB Technical Department.

COLOUR: White and Grey

STORAGE: 18 months



EN 998-1 Type GP
Class. CS II Wc1 (white)
Class. CS III Wc1 (grey)



USAGE GUIDE

WHERE TO USE?

- As a base or key coat for existing or new exterior or interior walls on all types of buildings for housing, office or industrial uses.
- Renovation of old rubble stone, stone or brick masonry.
- Re-pointing mortar (min 8 mm depth) for stone, brick, exterior finishes on existing and new facades.
- For full application guidance for a specific substrate, request a specification from PRB.

SUITABLE SUBSTRATES:

- ✓ Existing masonry, rubble stone or stonework, brickwork, jointed using weak mortar, lime mortar of good and bad quality or where the mortar has eroded.
- ✓ Pise, Adobe, Cob, Wicket, Bungaroosh or similar earth based constructions.
- ✓ Cement renders and traditional renders and/or rough coats. Concrete or lightweight block or brick masonry built using traditional or thin pointing.
- ✓ Poured concrete.
- ✓ Other substrate types and specific uses, contact the PRB Technical Department.

PROHIBITED SUBSTRATES

- ✗ All Gypsum-based substrates (Plaster).
- ✗ Paints, thin coat renders.
- ✗ Directly on wood.
- ✗ Horizontal, below DPC and basement surfaces, sloping surfaces (except arches and undersides of lintels).

ASSOCIATED COATINGS

- **PRB BELLE ÉPOQUE FINITION**
- **FINICHAUX** single-coat restoration render.
- Decorative renders: **PRB MANUPRO**.
- Mineral paints, **PRB COLOR MINERAL PLUS**.
- Thin coat mineral finishes: **PRB CREPIXATE**.

APPLICATION CONDITIONS

- Between 5°C and 30°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.
- Special requirements: Contact the PRB technical department.

TECHNICAL SPECIFICATIONS

COMPOSITION

- CL 90 air-slaked limes (calcic lime or fat lime) hydraulic lime NHL 3.5.
- Rolled and calibrated quarried quartz alluvial sands.
- Natural mineral pigments, specific additives.

MIXING, APPLICATION & CURING OVERVIEW

-  Mixing rate: 3.5 - 4.0 L (Grey), 4.0 - 5.0 L (White) clean water / 25kg bag.
- Mixing time: 3 to 7 mins
- Batch life time: 60 min. max.
- Curing time: 4 to 6 hrs
- Time between applications: Up to 7 days, saturate the substrate beforehand or use **PRB PRIMCHAUX PE** primer. (**See Substrate Preparation**)
- Max. thickness per layer: 20 mm

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

PRODUCT

POWDER:

Max. grading: 3.15 mm

MIXED PRODUCT:

- Water retention: 86 to 94 %
- pH (alkaline): 12.5 (± 0.5)

RENDER PERFORMANCE WHEN HARD:

- Density: 1.4 to 1.8 t/m³
- Modulus of elasticity: 5000 to 10000 MPa
- Bending strength: 1.5 to 2.7 MPa

RENDER PERFORMANCE AS PER 998.1 GP LIME BASE COAT MORTAR OF CATEGORY CS II AND CS III:

- Compression strength (BELLE ÉPOQUE SE): CSII (1.5 to 5 N/mm²) (white)
- Permeability to water vapour: $\mu \leq 15$
- Thermal conductivity (λ 10, dry): 0.76 W/m²K (tabulated value)
- Adherence/Rupt: ≥ 0.2 N/mm² A or B or C
- Water absorption (BELLE ÉPOQUE SE) $W_{cl} \leq 0.40$ kg/m².min0.5
- Fire behaviour (non-combustible): A1

APPLICATION

1. SUBSTRATE PREPARATION

- Substrates must be sound, clean, free of dust, stable and free from anything that may interfere with the adhesion of the material being applied.
- Use **PRB PRIMCHAUX PE** primer or wet but do not saturate the substrates 1/2 hour before application to leave a dampened surface before applying the render.
- During hot weather and/or dry or strong winds, to prevent the risk of early render dehydration, the substrate must be sprayed to saturation the day before application and wet again if necessary before application.

2. MORTAR PREPARATION

Render spraying pumps – Cement mixers



Mix **PRB BELLE ÉPOQUE SOUS ENDUIT** with 3.5 to 4.0L of clean water for the Grey powder version and 4.0 to 5.0 L of clean water for the White powder version, per 25 kg bag for 5 mins.

- The water dosage and mixing time must be as constant as possible to guarantee correct render consistency.

3. RENDER BEAD ADHESION

- Adhere the render beads on dabs of **PRB BELLE ÉPOQUE SOUS ENDUIT** at maximum 300mm centres & level and line to suit or use the **PRB RENDER BEAD ADHESIVE**, if permitted (check on conservation and heritage projects).

HEALTH & SAFETY

- Contains 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.

Technical sheet – August 2025

4. SPRAY EQUIPMENT SETTINGS

Render pump

- Water pressure setting: 12 to 14 bars
- Mixed product operating pressure: 16 to 24 bars
- Lance output flow rate: 14 to 18 L/min
- Spray nozzles (min. Ø): 12 mm

Spray pots

- Air pressure: 6 to 8 bars

Manual

- The application can be carried out by applying trowels of mortar with a highly elastic consistency and slightly overlapping one another.
- The render base-coat is levelled using a serrated Darby / serrated straight edge.

5. APPLICATION AND TYPE OF FINISH

- Application in 2 or 3 layers up to a maximum of 20 mm thick and embed with **PRB ORANGE MESH** or **PRB AVE MESH**. For thicker applications contact the PRB Technical Department.
- Leave the surface with a serrated toothed trowel finish ready to receive the proposed **PRB BELLE ÉPOQUE** top coat.

6. POINTING / REPOINTING / BUILDING MORTAR

PRB BELLE ÉPOQUE SOUS ENDUIT is also suitable for pointing of masonry and as a bedding mortar. You can also modify the appearance of **PRB BELLE ÉPOQUE SOUS ENDUIT** by adding materials such as: crushed bricks, crushed glass, shells or aggregates of different colours and textures. However, these additional aggregates or materials should not exceed 5% per 25 kg bag.

SCAN THE QR CODE BELOW
TO FIND THE MATERIAL
QUANTITY NEEDED



The only purpose of this technical data sheet is to inform customers about the product and its specific uses. The information it contains is based on current knowledge and experience. The end user must carry out a representative test to ensure the product is suitable for their specific application and no responsibility can be accepted, or any warranty given by our Representatives, Agents or Distributors. Our general terms and conditions of sale shall prevail, and the end user should check to ensure this document has not been replaced by a more updated version.



01242 524228



technical@prbsystems.co.uk



www.prbsystems.co.uk



Montis Court, Bouncers Lane, Cheltenham, GL52 5JW