PRB 6000 R

LIGHT, FINE-GRAIN SINGLE-LAYER PLASTER

The + s of PRB 6000 R

- Waterproofing and decoration for exterior walls type Rt1, Rt2 and Rt3 and interior walls
- Perfect for fine-scraped and fine-trowelled renderings
- Other finishes (rustic, roughcast, float-finish, sponge, etc.)
- Fine grain size to reduce clumping
- Lime-rich microfibre plaster

CE
EN 998-1 Type OC1
CS category: I

EXCELL – Contrôle substances indésirables Ambiances intérieures – A+, au-delà de la réglementation

UK CA

EMISSIONS DANS L'AIR INTÉRIEUR A+ A+ A B C

PACKAGING
– Paper bag containing 25kg.

STORAGE LIFE: 18 months.

CONSUMPTION/USE
The consumption varies depending on the surface (type, flatness, roughness, etc.).
The thickness at all protruding points of the facades must be at least 10 mm, in order to ensure proper waterproofing on Rt1, Rt2 and Rt3 substrates.
– Minimum thickness of 10 mm: 14 kg/m².
Concrete substrate and undercoats:
For decorative plastering, the thickness must be 5 mm at all points.
– Minimum finished thickness of 5 mm: 7 kg/m²
– Maximum finished thickness of 15 mm: 21 kg/m²

COLOUR: 100 PRB colours and Sun + colours.

PRB Sun+

APPLICATIONS

USES
- Exterior and interior walls on all types of buildings for residential, tertiary or industrial use.
- Renovating old masonry in rubble stone, stone or brick, rendered with exposed stones.
- Grouting joints (min. 8 mm) for brick, stone and ceramic facades.
- French DTU Standard 20.1, French DTU Standard 23.1 & French DTU Standard 26.1.

SUITABLE SUBSTRATES: Rt1, Rt2 & Rt3
- Breeze block masonry or brickwork (DTU 20.1) with standard or narrow joints.
- Cellular concrete block masonry with a density of ≥ 400 kg/m³ in accordance with EN 772-13.
- Cast-in-place concretes (French DTU 23.1).
- Cement undercoats and mixes (French DTU 26.1).
- Old masonry (rubble, stone, brick) French DTU 26.1.
- For other substrates, please contact us.

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

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 ***"Preparing the surface".***

TECHNICAL CHARACTERISTICS

INGREDIENTS
- Binders (white cement, natural hydraulic lime, high calcium lime).
- Microfiber fillers, sands and quartz aggregates.
- Water retention agents & setting agents.
- Water repellent agents &light-stable mineral pigments.

PRODUCTS
POWDER:
- Max. grain size: ≤ 2 mm

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

PERFORMANCE OF THE RENDER WHEN HARDENED:
- Density: 1 to 1.4 t/m³
- Modulus of elasticity: ≤5000 MPa
- Flexural strength: <2 MPa

PERFORMANCE ACCORDING TO EN 998-1 - SINGLE-LAYER MORTAR:
- Water permeability after freezing: ≤ 1 cm³/cm²
- Water vapour permeability: μ <20
- Heat conductivity (λ10, dry): 0.54 W/mK (established value)
- Durability/adhesion after freezing/Rupture: ≥ 0.2 N/mm² A, B or C
- Compressive strength: CSI (0.4 to 2.5 N/mm²)
- Water absorption (Wc2): Capillarity ≤ 0.20 kg/m².min$^{0.5}$
- Reaction to fire (non-combustible): A1 (M0)

APPLICATION
- Quantity of water needed: 23 to 27%
- Mixing time: 3 to 7 mins
- Mixture handling time: 60 mins max.
- Setting time - before contact with water: 4 to 24 hrs
- Setting time - between layers: 1 to 72 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

PREPARING THE SURFACES
- Surfaces 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 drying out.
- Refer to ***"Preparing the surface",*** as well as to ***"Applying single-layer plaster according to the condition of the surface".***
- For restorations, please refer to ***"Application Advice".***

PREPARING THE MORTAR
Mortar pumps / sprayers -
- For every 25kg bag, mix **PRB 6000 R** with 5.75 to 6.75 l of clean water for 5min.
- 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
Grouting pump
- Set the water pressure to: 12 to 14 bars
- Paste operating pressure: 18 to 24 bars
- Sprayer flow rate: 12 to 15 l/min
- Spray nozzles (min. Ø): 12 mm

Spray guns
- Air pressure: 6 to 8 bars

Manual
- The plaster can be applied in small strokes with a plastic mortar trowel, overlapping slightly.
- Level the base layer by smoothing the render with a straight edge

APPLICATION AND TYPES OF FINISH
- Finish: Fine scrape, Rustic, Rustic roughcast, Float-finish & Sponge trowel. **Please note**: A float-finish is likely to cause shading, cracking or crazing that could have a negative effect on the overall appearance. Darker colours accentuate these problems.
- Apply in accordance with the "Types of Finishes" section.
- For the different types of finish possible, see the "Selection guide".

PRECAUTIONS FOR USE
- Contains cement and/or lime.
- Refer to the packaging safety label and safety data sheet before use.

Technical Data Sheet - 18 August 2022