

# PRB SUPERBRUT

FINE-GRAINED SEMI-LIGHTWEIGHT SINGLE-COAT RENDER



## The +s of PRB SUPERBRUT

- + Waterproofing and decorating Rt1\* ( $\geq$  to 550 kg/m<sup>3</sup>), Rt2 and Rt3 exterior walls and interior walls
- + All types of finishes (fine scrape, float-finish & roughcast)
- + Can be used underground (see conditions)
- + 20 kg bag



EN 998-1 Type OC2  
CS category: II Wc2



### PACKAGING

#### PRB SUPERBRUT:

– Paper bag containing 20 kg.

**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 façades must be at least 10 mm, in order to ensure proper waterproofing on Rt1, Rt2 and Rt3 substrates.

Concrete substrates and undercoats:

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

– **Average consumption: 1.4 kg/m<sup>2</sup>/mm of thickness**

**COLOUR:** 100 PRB colours and Sun + colours.



## APPLICATIONS

### USES

- Waterproof coating for exterior or interior walls, on all types of buildings, for residential, tertiary or industrial use.
- Joints (min. 8 mm) for bricks, stone and ceramic façades.
- Reference documents:  
French DTU Standards 20.1, 23.1 & 26.1.

### SUITABLE SUBSTRATES

(see Selection Guide)

- Concretes (French DTU 23.1).
- Breeze block masonry or brickwork with standard or narrow joints (French DTU 20.1).

- Cement undercoats and mixes (French DTU 26.1).
- For old masonry and other surfaces, please contact us beforehand (French DTU 26.1).
- Cellular concrete masonry - density  $\geq$  550 kg/m<sup>3</sup> according to NF EN 772-13.  
\* Outside the scope of QB 11-3 certification.

- For category III underground walls, small collective houses and private homes, as defined in the French DTU Standard 20-1, PRB SUPERBRUT should be applied to the outside of the buried wall to a maximum depth of 0.6 m. It must be compacted and finished with a smooth or trowel finish and have a minimum thickness of 15 mm.

A 40 to 60 cm wide reinforcing strip of alkali-resistant fibreglass should be inserted into the first coat or layer, at the capillary break, to reduce the risk of cracking.

- Make a horizontal capillary cut in the plaster, 15 cm from the finished floor, using the cutting edge of a trowel, then fill in with a cord of SNJF-certified 1<sup>st</sup> category sealant. The underground part concerns category 3 walls only, according to the French DTU 20.1.

### UNSUITABLE 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).

## 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 & light-stable mineral pigments.

### PRODUCTS

#### POWDER:

- Max. grain size: 2 mm

#### PASTE:

- Water retention:  $\geq$  94%
- pH (alkaline): 12.5  $\pm$  0.5

### PERFORMANCE WHEN HARDENED:

- Density: 1.2 to 1.6 t/m<sup>3</sup>
- Modulus of elasticity:  $\leq$  5,000 MPa
- Flexural strength: 1 to 2.5 MPa

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

- Compressive strength: CS II (1.5 to 5 N/mm<sup>2</sup>)
- Water permeability after freezing:  $\leq$  1 cm<sup>3</sup>/cm<sup>2</sup>
- Water vapour permeability:  $\mu <$  20
- Thermal conductivity ( $\lambda$ , 10, dry): 0.54 W/mK (established value)

- Durability/adhesion after freezing/Rupture:  $\geq$  0.2 N/mm<sup>2</sup> A, B or C
- Water absorption (Wc2): Capillarity  $\leq$  0.20 kg/m<sup>2</sup>.min<sup>0.5</sup>
- 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 6 hrs
- Setting time - before scraping: 4 to 24 hrs
- Setting time - between layers: 4 to 72 hrs
- Maximum thickness per layer: 20 mm

- Maximum working thickness: 30 mm
- Min. thickness (waterproofing): 10 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 SURFACE

- Surfaces must be clean, dust-free, stable, and any 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. Allow to dry (matt seque) before application.
- Refer to "Preparing the surface", as well as to "Applying single-layer plaster according to the condition of the surface".

### PREPARING THE MORTAR

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

- For every 20 kg bag, mix PRB SUPERBRUT with 4.6 to 5.4 L of clean water for 5 mins.
- 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: 14 to 18 L/min
- Spray nozzles (min.  $\emptyset$ ): 12 mm

##### Spray guns

- Air pressure: 6 to 8 bars

##### Manual

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

### APPLICATION AND TYPES OF FINISH

- Applying the render in 2 layers:
  - 1<sup>st</sup> layer: 8 to 10 mm,
  - 2<sup>nd</sup> layer: 5 to 10 mm, depending on the finish.
- Finish: Fine scrape, Rough scrape, Rustic, Rustic roughcast, Float-finish & Circular Float-finish.
- 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.