

# PRB ALG GRAIN FIN

LIGHTWEIGHT FINE GRAIN SINGLE-COAT RENDER



## The PRB ALG GRAIN FIN +

- + Waterproofing and decoration of outside walls type RT1, RT2 and RT3 and interior walls
- + All types of finish (fine scratched, rustic and flattened rustic, floated...)
- + Its specific formulation makes it especially suitable for low strength masonry



EN 998-1 Type OC1  
Class CSIII



### PACKAGING

- 30 kg paper bag.
- 1.44 t pallet, i.e. 48 30 kg bags.

**STORAGE:** 18 months.

### CONSUMPTION

Consumption varies according to the substrate (type, flatness, roughness). The minimum thickness at all protruding points on facades must be 10 mm to guarantee the waterproofing function on RT2 and RT3 substrates.

**- Minimum thickness of 10 mm: 13 kg/m<sup>2</sup>.**

Concrete substrate and render under-coat:

For a decorative render the thickness must be 5 mm at all points.

**- Minimum finished thickness of 5 mm: 6.5 kg/m<sup>2</sup>**

**- Maximum finished thickness of 15 mm: 19.5 kg/m<sup>2</sup>**

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



## AREA OF USE

### USE

- Exterior or interior walls on all types of housing, office or industrial buildings.
- DTU 20.1, DTU 23.1, DTU 26.1 (P1-1, P1-2 and P2).

### AUTHORISED SUBSTRATES

(See selection guide)

- Cellular concrete block masonry compliant with NFP 14-306.
- Poured concrete (DTU 23.1)
- Breeze block or brick masonry with traditional or thin pointing (DTU 20.1 P1-1, P1-2, P2, P3, P4)
- Cement and rough render under-coats (DTU26.1).
- Other substrates please contact us.

### PROHIBITED SUBSTRATES

- All Gypsum-based substrates (Plaster).
- Paints, T.P.C.
- Directly on wood.
- Horizontal or sloping surfaces.

### APPLICATION CONDITIONS

- Between 5°C and 35°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.

- Avoid applying intense shades (dark range) at temperatures < 8°C and in very damp conditions (increased risk of efflorescences or carbonation).
- Special measures: see "Substrate preparation".

## TECHNICAL CHARACTERISTICS

### COMPOSITION

- Binders (white cement, natural hydraulic lime, calcic lime).
- Fillers, sand and quartz aggregates.
- Water retention agents, setting regulators.
- Waterproofing compound, mineral pigments stable in light.

### PRODUCTS

#### POWDER:

- Max. grading: ≤ 2 mm

#### PASTE:

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

### RENDER PERFORMANCE

#### WHEN HARD:

- Density: 1 to 1.4 t/m<sup>3</sup>
- Modulus of elasticity: < 5000 MPa
- Bending strength: < 2 MPa

#### RENDER PERFORMANCE AS PER EN 998-1 SINGLE COAT MORTAR OC:

- Water permeability after freezing: ≤ 1 cm<sup>3</sup>/cm<sup>2</sup>
- Permeability to water vapour: μ < 20
- Thermal conductivity (λ, 10 sec.): 0.54 W/mK (tabulated value)
- Durability/adhesion after freezing/Rupt: ≥ 0.2 N/mm<sup>2</sup> A or B or C

- Compressive strength: CS II (0.4 to 2.5 N/mm<sup>2</sup>)
- W2 water absorption: C ≤ 0.20 kg/m<sup>2</sup>.min<sup>0.5</sup>
- Fire behaviour (non-combustible): A1 (M0)

### PREPARATION

- Mixing rate: 21 to 25 %
- Mixing time: 3 to 7 min
- Batch life time: 60 min. max.
- Out of water time: 4 to 24 h
- Time between applications: 1 to 72h
- Max. thickness per layer: 20 mm
- Max. total thickness: 30 mm

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

## PREPARATION

### SUBSTRATE PREPARATION

- Substrates must be clean, free of dust, stable, re-filled beforehand if significant chips or splinters are detected.
- During hot weather and/or dry or sensitive winds, to prevent the risk of render dehydration, the screening substrate must be soaked the day before application and wet again if necessary before application.
- Please refer to "Substrate preparation", as well as "Using single coat renders depending on substrate condition".

### MORTAR PREPARATION

#### Mortar spraying pumps -

#### Concrete mixers (discontinuous mixers)

- Mix PRB ALG Grain fin with 6.3 to 7.5 l of clean water per 30 kg bag for 5 minutes.
- The water dosage and the mixing time will be as consistent as possible to guarantee the evenness of the shade throughout the application.
- Similarly, when using batches with different dates, these should be mixed proportionately to avoid possible variations in shade.

### SPRAY EQUIPMENT SETTINGS

#### Mortar pump

- Water pressure setting: 12 to 14 bars
- Paste operating pressure: 18 to 24 bars
- Lance output flow rate: 12 to 45 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 floated using a straight edge

### APPLICATION AND TYPE OF FINISH

- Finish: Fine scraped, rustic, smoothed rustic, floated, smooth floated.
- NB:** Floated finishes generate shade differences and micro-cracking or checking that can be detrimental to the appearance or aesthetics. Dark shades accentuate these issues.
- Application depending on the "Types of Finish".
- To find out the possible types of finish, see "Selection guide".

### PRECAUTIONS FOR USE

- Contains cement and/or lime.
- Read the regulatory labelling on the package and read the safety data sheet before using.