



# PRB BLANC CRISTAL

SINGLE-COAT LUMINOUS WHITE, HEAVY, FINE-GRAIN RENDER



## The of PRB BLANC CRISTAL

-  **Waterproofing and decoration of outside walls of the RT3 type and internal walls**
-  **All types of finish (fine scraped, smoothed, floated, etc.)**



EN 998-1 Type OC3  
Class CS III



### PACKAGING

- 25 kg paper bag.
- 1.6 t pallet, i.e. 64 25 kg bags.

**STORAGE:** 18 months.

### CONSUMPTION

Consumption varies according to the substrate (type, flatness, roughness).

The minimum thickness at all protruding points on the facade, must be 10 mm to guarantee the waterproofing function on RT3 substrates.

**- Minimum thickness of 10 mm: 17 kg/m².**

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: 8.5 kg/m²**

**- Maximum finished thickness of 15 mm: 25.5 kg/m²**

**COLOUR:** Natural luminous white

## AREA OF USE

### USE

- Exterior or interior walls on all types of housing, office or industrial buildings.
- Decorative renders.
- Visible stonework render.
- Pointing (8 mm min.) for brick, stone, ceramic facades.
- DTU 20.1, DTU 23.1, DTU 26.1 (P1-1, P1-2 and P2).

### AUTHORISED SUBSTRATES

(See selection guide)

- Poured concrete (DTU 23.1).
- Block-work (DTU 20.1) built using traditional or thin joints.
- Cement or mixed cement under-coats (DTU 26.1).
- Existing masonry and other substrates (contact us).

### PROHIBITED SUBSTRATES

- All Gypsum-based substrates (Plaster).
- Paints, R.P.E.
- Directly on wood.
- Horizontal or sloping surface (except arches and undersides).

### 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 heavy winds.

- Take the usual precautions to avoid water from being sprayed on or running over a freshly applied render (< 72 h) to avoid gulleys or drip marks.
- Special measures: see "Substrate preparation".

## TECHNICAL CHARACTERISTICS

### COMPOSITION

- Binders (calclitic lime - white cement).
- Fillers, sand, quartz and marble aggregates.
- Water retention agents, setting regulators.
- Integral waterproofing.

### PRODUCTS

#### POWDER:

- Max. grading: 1.8 mm

#### PASTE:

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

### RENDER PERFORMANCE

#### WHEN HARD:

- Density: 1.6 to 2 t/m³
- Modulus of elasticity: 7,500 to 14,000 MPa
- Bending strength: 2.7 to 4.5 MPa

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

- Compressive strength: CS III (3.5 to 7.5 N/mm²)
- Water permeability after freezing: ≤ 1 cm³/cm²
- Permeability to water vapour:  $\mu < 35$
- Thermal conductivity ( $\lambda$  10 sec.): 0.76 W/mK (tabulated value)

- Durability/adhesion after freezing/Rupt:  $\geq 0.2$  N/mm² A or B or C
- W2 water absorption:  $C \leq 0.20$  kg/dm².min<sup>0.5</sup>
- Fire behaviour (non-combustible): A1 (M0)

### PREPARATION

- Mixing rate: 16 to 18 %
- Mixing time: 3 to 7 min
- Batch life time: 40 min. max.
- Out of water time: 2 to 6 h
- Time between applications: 3 to 12 h
- 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 BLANC CRISTAL with 4 to 4.5 l of clean water per 25 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: 16 to 24 bars
- Lance output flow rate: 15 to 18 l/min
- Spray nozzles (min. Ø): 10 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 undercoat render is floated using a straight edge.

### APPLICATION AND TYPE OF FINISH

- Finish: Fine scraped, formwork, rustic, smoothed rustic, vitrified, smooth floated.
- Application depending on the "Types of finish".
- To see the possible types of finish, see the "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.