

PRB SC GRIS

LIGHT, FINE-GRAIN SINGLE-LAYER UNDERCOAT



The +s of PRB SC GRIS

- + Waterproofing for Rt1, Rt2 & Rt3 external walls and old masonry
- + Levelling render for Rt1, Rt2 & Rt3 interior walls and old masonry
- + Can be covered using: paint, thick paint coatings, semi-thick coatings & renders
- + Allows walls that are heavily coated in air-slaked lime to breathe

 EN 998-1 Type OC1
CS category II





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 10mm: 13 kg/m².**

Concrete substrates and undercoats:

The thickness must be 5 mm at all points.

– **Minimum finished thickness of 5 mm: 6.5 kg/m²**

– **Maximum finished thickness of 15 mm: 19.5 kg/m²**

COLOUR: Light grey.



APPLICATIONS

USES

- Exterior and interior walls on all types of buildings for residential, tertiary or industrial use.
- French DTU Standards 20.1 & 23.1, 26.1 (P1-1, P1-2 and P2).
- French DTU 59.1 & 42.1.

SUITABLE SUBSTRATES

(see Selection Guide)

- Aerated concrete block masonry with a density of ≥ 400 kg/m³ in accordance with the NF EN 772-13 standard.
- Cast-in-place concrete (French DTU 23.1).
- Breeze block masonry or brickwork with standard or narrow joints (French DTU 20.1 - P1-1, P1-2, P2, P3 & P4)
- Cement undercoats and mixes (French DTU 26.1).
- For other substrates, please contact us beforehand.

UNSUITABLE SUBSTRATES

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

COMPATIBLE SURFACING MATERIALS

- All unsaponifiable interior and exterior paints.
- Thick plastic coatings: French DTU 59.1.
- Thick mineral coatings: French DTU 59.1.
- Semi-thick coatings.
- Decorative and ornamental paints (acrylic

or mineral) - type D2, D3...

- Waterproofing paints: A2(I1) to A5(I4).
- OC1 CS1, OC2 CSII and CR CSII single-layer or decorative hydraulic renders.

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.
- Special conditions: see *"Preparing the surface"*.

TECHNICAL CHARACTERISTICS

INGREDIENTS

- Binders (cement, natural hydraulic lime, high calcium lime).
- Fillers, quartz sands and aggregates.
- Water-retention agents & setting agents.
- Water-repellent agents.

PRODUCTS

POWDER:

- Max. grain size: ≤ 2 mm

PASTE:

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

PERFORMANCE 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: $\mu < 20$
- Thermal conductivity (λ_{10} , dry): 0.54 W/mK (established value)
- Durability/adhesion after freezing/Rupture: ≥ 0.2 N/mm² A, B or C

- Compressive strength: CS II (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: 21 to 25%
- 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 SURFACE

- 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 an undercoat/base layer according to the condition of the surface"*.

PREPARING THE MORTAR

Mortar pumps/sprayers -

Concrete mixers (batch mixers)

- For every 25kg bag, mix **PRB SC GRIS** with 5.25 to 6.25 l of clean water for 5 mins.
- The water ratio and mixing time should be kept as consistent as possible to ensure a uniform application.

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. \emptyset): 12 mm

Spray guns

- Air pressure: 6 to 8 bars

Manual

- 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

- Rough finish or scraped to obtain a decorative cement/lime coating or float-finish in 2 layers for applying paint, waterproof paint, thick paint coatings, semi-thick coatings, etc.

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



PRB SC GRIS

SMOOTHING RENDERS / UNDERCOATS: UNDERCOATS
STANDARD AND SINGLE-LAYER UNDERCOATS

FACADES