

PRB SC GRIS

LIGHTWEIGHT FINE-GRAINED SINGLE-COAT SUB-RENDER



The PRB SC GRIS +

- + Weatherproofing of external walls of the Rt1, Rt2 and Rt3 type and existing masonry
- + Smoothing render for interior Rt1, Rt2, Rt3 walls and existing masonry
- + Can be covered using: paint, thick paint covering, thick mineral covering, renders
- + Lets the walls that are heavily coated in air-slaked lime breathe

PACKAGING

- 25 kg paper bag.
- 1.2 t pallet, i.e. 48 25 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 RT1, RT2 and RT3 substrates.

- **Minimum thickness of 10 mm: 13 kg/m².**

Concrete substrate and render under-coat:

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.



EN 998-1 Type OC1
Class CSII



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).
- DTU 59.1, 42.1.

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.

ASSOCIATED COATINGS

- Any non-saponifiable interior and exterior paints.
- Thick Plastic Coatings: DTU 59.1 and NFT 30-700 standard.
- Thick Mineral Coatings DTU 59.1. and NFT 30-700 standard.
- Semi-thick coverings (NFT 34-720)
- D2 and D3 type decorative and finishing paints (acrylic or mineral).
- Class A2(I1) to A5(I4) waterproofing paint.
- Single-coat or decorative hydraulic renders OC1, CSI, OC2 CSII and CR CSII.

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.
- Special measures: see **"Substrate preparation"**.

TECHNICAL SPECIFICATIONS

COMPOSITION

- Binders (cement, natural hydraulic lime, calcium lime).
- Fillers, sand and quartz aggregates.
- Water retention agents, setting regulators.
- Integral waterproofing.

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/m³
- Modulus of elasticity: < 5000 MPa
- Bending strength: < 2 MPa

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

- Water permeability after freezing: ≤ 1 cm³/cm²
- 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/mm² A or B or C

- Compressive strength: CSII (0.4 to 2.5 N/mm²)
- W2 water absorption: C ≤ 0.20 kg/m².min^{0.5}
- Fire behaviour (non-combustible): A1 (M0)

APPLICATION

- 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 72 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.

APPLICATION

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 **"Applying sub-coats depending on substrate condition"**.

MORTAR PREPARATION

Mortar spraying pumps - Concrete mixers (discontinuous mixers)

- Mix PRB SC GRIS with 5.25 to 6.25 l of clean water per 25 kg bag for 5 minutes.
- The water dosage and mixing time must be as constant as possible.

SPRAYING 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

- Straight edge or scraped finish to apply a decorative cement/lime or floated render 2 passes for application of paint, waterproofing paint, TPC, TMC...

PRECAUTIONS FOR USE

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