

PRB SC GRIS

SEMI-LIGHTWEIGHT FINE-GRAINED ONE COAT BASECOAT RENDER

Benefits of the PRB SC GRIS +

- + Breathable and weatherproofing render for external walls
- + Suitable as a levelling render for interior and exterior walls
- + Can be covered using: Coloured renders, paint, thin coat organic and mineral finishes
- + Allows walls that are heavily coated in air-slaked lime to breathe



KEY PRODUCT INFORMATION

- 25 kg paper bag.
- 0.98 t pallet, i.e. 42no 25 kg bags.

CONSUMPTION/USE

Consumption varies according to the thickness applied and substrate (type, flatness, roughness). As a basecoat to receive a thin coat render system, the minimum thickness at all protruding points on external facade substrates must be 15 mm to guarantee the weatherproofing function. Min 5 - 10 mm internally.

- Minimum thickness of 5 mm: 3.85m² per 25 kg bag - 6.5 kg/m²
- Minimum thickness of 10 mm: 1.90m² per 25 kg bag - 13 kg/m²
- Minimum thickness of 15 mm: 1.28m² per 25 kg bag - 19.5 kg/m²

COLOUR: Light Grey

STORAGE: 18 months

WATER CONTENT: 5.25 to 6.25 L

APPLICATION TEMPERATURE: 5°C - 30°C



EN 998-1 Type OC1
Class CSII



USAGE GUIDE

WHERE TO USE?

- Exterior or interior walls on all types of housing, office or industrial buildings.

SUITABLE SUBSTRATES

- ✓ Concrete block.
- ✓ Lightweight aircrete concrete block > 550 kg/m³.
- ✓ Poured concrete.
- ✓ Breeze block or brick masonry with existing sound render.
- ✓ Clay insulating blocks.
- ✓ Existing masonry and other substrates please contact PRB Technical Department.

Some substrates may require a suction control coat of **PRB ACCROFIX PATE** or **PRIMCHAUX PE**.

PROHIBITED SUBSTRATES

- ✗ All Gypsum-based substrates (Plaster).
- ✗ Paints, thin coat acrylic finishes.
- ✗ Directly on wood.
- ✗ Horizontal or sloping surfaces (except arches and undersides of lintels etc).

ASSOCIATED COATINGS

- Any water based interior and exterior paints.
- Thin coat acrylic and mineral finishes.
- Latex based masonry waterproofing paints.
- One-coat or decorative hydraulic renders OC1/CSI, OC2/CSII and OCIII/CSIII. e.g. **PRB SUPERBRUT, PRB OZE, ALG** etc.

APPLICATION CONDITIONS

- Between 5°C and 30°C.
- Do not apply on substrates that are frozen or thawing, hot or exposed to full sunlight, soaked or exposed to driving rain or strong drying winds (hot or not).
- Take extra precautions when applying in hot weather and strong winds in order to avoid premature drying out.

TECHNICAL CHARACTERISTICS

COMPOSITION

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

APPLICATION

- Mixing rate: 21 to 25 %
- Mixing time: 3 to 7 mins.
- Batch life time: 60 min. max.
- Curing time: 4 to 24 hrs
- Time between applications: 1 to 72 hrs
- 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 application of the material used may modify them significantly.

PRODUCT

POWDER:

- Max. grading: ≤ 2 mm

MIXED PRODUCT:

- 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/m²K (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

1. SUBSTRATE PREPARATION

- Substrates must be sound clean, free of dust, stable, repaired and free from anything that may interfere with the adhesion of the material being applied.
- During hot weather and/or strong winds, to prevent the risk of render dehydration, the substrate must be soaked but not saturated approx 1/2 hour before application.
- Some substrates may require a suction control bonding coat of **PRB ACCROFIX PATE**.
- For full application guidance a specific substrate, request a specification from PRB.

2. MORTAR PREPARATION

Render spraying pumps – Cement mixers



Mix **PRB SC GRIS** with 5.25 to 6.25 L of clean water per 25 kg bag for 5 minutes.

- The water content and mixing time must be as consistent as possible to guarantee the evenness of the mix.

3. SPRAYING EQUIPMENT SETTINGS

Render pump

- Water pressure setting: 12 to 14 bars
- Mixed product 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 ruled level using a serrated straight edge or Derby or stainless steel trowel or wide spatular.

4. MORTAR PREPARATION

Apply the **PRB SC GRIS** in a one or two-pass / coat operation to the required 12, 15 or 20 mm thickness or to a maximum thickness of 30mm. Beyond this thickness contact PRB.

As part of the application as a minimum, embed 500 x 300 mm diagonal stress patches using **PRB ORANGE MESH** or **PRB AVE MESH** across the corner of the openings to provide crack resistance. In addition, full or partial mesh may also be required.

FLOATED FINISH FOR A DECORATIVE FINISH, PAINT OR THIN COAT FINISH

Trowel, Sponge or Bagged Finish – Please note if the finish is over worked, these application techniques may cause surface micro cracking that can be detrimental to the appearance or aesthetics if the render is left uncoated.

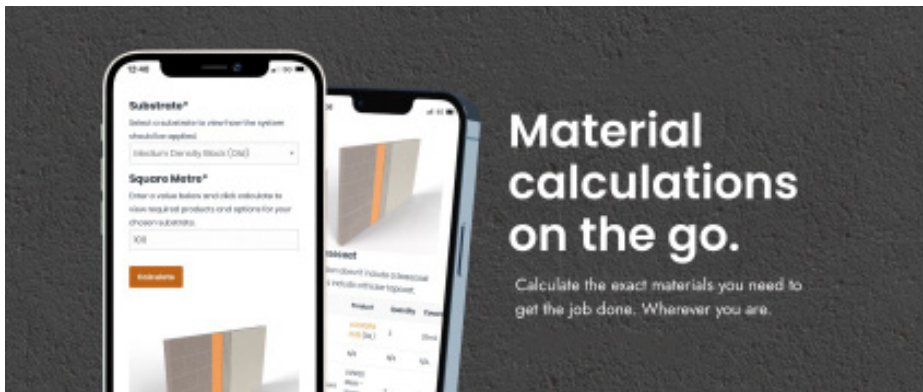
- A trowel finish is achieved by skimming the level and ruled surface with a wooden or plastic float to produce a smooth dense surface to the desired effect.
- A sponge finish is achieved by skimming the level and ruled surface with a sponge float to produce a slightly sanded surface to the desired effect.
- A bagged finish is achieved by rubbing a ball of damp hessian over the surface which produces patterns depending on the style of rubbing.
- If left uncoated, care must be taken not to let water run down the wall during the curing period, spoiling the finish by washing the cement out of the render.

5. TOPCOAT FINISHES

- Apply a topcoat decorative finish of one coat cement based render e.g. **PRB SUPERBRUT** or lime render e.g. **PRB BELLE EPOQUE FINITION**, or a two pass paint or waterproofing finish or decorative thin coat acrylic or mineral render system.

HEALTH AND SAFETY

- Contains cement and lime.
- May produce an allergic reaction. Harmful if inhaled, irritating to eyes and skin. Wear suitable protective clothing, gloves and eye/face protection.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical help. After contact with skin, wash immediately with plenty of soap and water.
- Keep out of the reach of children.
- For further information, please read the Material Safety Data Sheet for this product.



SCAN THE QR CODE BELOW
TO FIND THE MATERIAL
QUANTITY NEEDED



Technical sheet - September 2023

The only purpose of this technical data sheet is to inform customers about the product and its specific uses. The information it contains is based on current knowledge and experience. The end user must carry out a representative test to ensure the product is suitable for their specific application and no responsibility can be accepted, or any warranty given by our Representatives, Agents or Distributors. Our general terms and conditions of sale shall prevail, and the end user should check to ensure this document has not been replaced by a more updated version.

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