

PRB SUPERBRUT

SEMI-LIGHTWEIGHT FINE GRAINED ONE-COAT RENDER

Benefits of the PRB SUPERBRUT



-  Weatherproof, breathable and decorative through colour render for external and internal masonry walls
-  Suitable for all types of finish (fine scraped, floated, roughcast, rustic and spray textured)
-  Suitable for below DPC applications (subject to conditions)
-  20 kg bag



KEY PRODUCT INFORMATION

PRB SUPERBRUT:

- 20 kg paper bag.
- 1.05 t pallet, i.e. 49no 20 kg bags.

PRB SUPERBRUT BASECOAT RENDER:

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

STORAGE: 18 months

WATER CONTENT: SUPERBRUT 5.0 – 5.5 L/20kg bag or SUPERBRUT SE 5.75 to 6.25 L/25kg bag

APPLICATION TEMPERATURE: 5°C – 30°C

CONSUMPTION

Consumption rates provided are for a scraped render finish and will vary according to the substrate conditions (type, flatness, roughness).

Consumption will vary for other finishes. E.g. A floated/sponge finish will produce a higher yield per bag.

- **Minimum thickness of 10 mm:** 1.35m² per 20 kg bag – 14.5 kg/m²
- **Minimum thickness of 12 mm:** 1.1m² per 20 kg bag – 17.5 kg/m²
- **Minimum thickness of 15 mm:** 0.9m² per 20 kg bag – 20 kg/m²

The minimum thickness applied will vary depending upon application finish and weather rating zone but must be applied at the stated thickness to guarantee the weatherproofing function.

COLOUR: 100 PRB and Sun+ colours.

WHERE TO USE?

- A weatherproofing render for exterior or interior walls on all types of housing, office or industrial buildings.
- For pointing (8 mm min.) for brick, stone, tiled facades.
- For the renovation of existing facades.

SUITABLE SUBSTRATES

- ✓ Concrete*
- ✓ Concrete block or brickwork*.
- ✓ Clay insulating blocks*.
- ✓ Existing sound render*.
- ✓ Lightweight aircrete concrete blockwork of a density > 550 kg/m³.*.

*These substrates will generally require a suction control coat of **PRB ACCROFIX PATE**. If unsure contact the PRB Technical Department.

- ✓ Other substrates, please contact PRB.
- ✓ For below DPC applications to concrete & concrete block walls comprising of a cavity construction, **PRB SUPERBRUT** render can be applied at a depth of 0.60m max. when enhanced with **PRB LATEX FAÇADE**.

It must be given a smooth or floated finish and be at least 15 mm thick. Embed a reinforcing strip of **PRB ORANGE MESH** or **PRB AVE MESH** throughout the application to reduce the risk of cracking.

For full application guidance for a particular substrate request a specification from PRB.

PROHIBITED SUBSTRATES

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

APPLICATION CONDITIONS

- Between 5°C and 30°C.
- Do not apply on substrates that are frozen or thawing, hot or exposed to full sunlight, saturated or exposed to driving rain or strong winds.
- Avoid applying dark colours at temperatures < 8°C and in very damp conditions (increased risk of blooming).
- Take extra precautions when applying in hot weather and strong winds in order to avoid premature drying out.

NB: Floated finishes generate shade differences and micro-cracking that can be detrimental to the appearance or aesthetics.

GENERAL ADVICE

It is advisable to dampen the surface after initial curing of the topcoat finish, using a garden sprayer or mist spray from a hose to prevent early surface hardening which can lead to surface micro cracking. Until the render is dry and hardened, it is recommended to cover with hessian or mortar fleece to protect from drying winds, frost, strong sun and driving rain.

Caution must be given when dealing with darker colours because these are more vulnerable to marks showing on the finish generally caused by over working the finish, adding too much water to the surface when sponging or trowelling, or using dirty trowels or sponges, or finishing during unsuitable weather conditions (e.g. wet or damp climatic conditions, direct sunlight, drying winds) and not taking suitable precautions against these conditions, therefore good application procedures and techniques are paramount to avoid these effects occurring.

TECHNICAL SPECIFICATIONS

INGREDIENTS

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

TECHNICAL CHARACTERISTICS

POWDER:

- Max. grading: 2 mm

MIXED PRODUCT:

- Water retention: > 94 %
- pH (alkaline): 12.5 ± 0.5

RENDER PERFORMANCE WHEN HARD:

- Density: 1.2 to 1.6 t/m³
- Modulus of elasticity: < 5000 MPa
- Bending strength: 1 to 2.5 MPa

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

- Compressive strength: CS II (1.5 to 5 N/mm²)
- Water permeability after freezing: $\leq 1 \text{ cm}^3/\text{cm}^2$
- Permeability to water vapour: $\mu < 20$
- Thermal conductivity (λ 10, dry): 0.54 W/m²K (tabulated value)
- Durability/adhesion after freezing/Rupt: $\geq 0.2 \text{ N/mm}^2$ A or B or C
- DW2 water absorption: $C \leq 0.20 \text{ kg/m}^2 \cdot \text{min}^{0.5}$
- Fire behaviour: A1 (non-combustible)

APPLICATION



- Mixing rate Superbrut: 4.6 - 5.4 L clean water / 20kg bag.
- Mixing rate Superbrut SE: 5.75 to 6.25 L clean water / 25kg bag.
- Mixing time: 3 to 7 mins.
- Batch life time: 60 min. max.
- Curing time: 4 to 6 hrs
- Time before scraping: 4 to 24 hrs
- Time between applications: 4 to 72 hrs
- Max. thickness per layer: 20 mm
- Max. applied thickness: 30 mm
- Minimum thickness (weatherproofing): 10 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.

REFERENCE DOCUMENTS

- BS 5628-3 Code of Practice for the use of masonry.
- BS EN 13914-1 Code of Practice for external rendering.
- BS 8000 Workmanship on building sites.

SCAN THE QR CODE BELOW
TO FIND THE MATERIAL
QUANTITY NEEDED



Product	Quantity	Cover
isecoat		
ACCORON AIR (20)	3	20m ²
N/A	N/A	N/A
AVNOS		
Man-		

Material calculations on the go.

Calculate the exact materials you need to get the job done. Wherever you are.

PREPARATION

1. SUBSTRATE PREPARATION

- Substrates must be sound, clean, dust free, stable, and free from anything that may interfere with the adhesion of the material being applied.
- Wet but do not saturate the substrates 1/2 hour before application to leave a dampened surface before applying the render.
- Some substrates may benefit from a suction control bonding coat and / or **PRB ORANGE MESH** or **PRB AVE MESH**. For full application guidance, request a specification from PRB.

2. MORTAR PREPARATION

Render spraying pumps – Cement mixers



Mix **PRB SUPERBRUT** with 4.6 to 5.4 L of clean water per 20 kg bag (or 5.75 to 6.25 L of clean water per 25 kg bag of **PRB SUPERBRUT** basecoat) for 5 minutes.

- The water dosage and the mixing time must be as consistent as possible to guarantee the evenness of the colour throughout the application.
- Similarly, when using batches with different dates, these should be mixed proportionately to avoid possible variations in shade

NB: Always check before commencing by producing a sample panel for approval..

3. SPRAY EQUIPMENT SETTINGS

Render pump

- Water pressure setting: 12 to 14 bars
- Mixed product operating pressure: 18 to 24 bars
- Lance output flow rate: 14 to 18 L/m
- 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 Darby or straight edge.

4. APPLICATION AND FINISH TYPE

Apply the **PRB SUPERBRUT** 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.

SCRAPED FINISH

For a scraped finish apply an additional 2 – 3mm as this will be removed by the scraping process to give a finished thickness of 12, 15 or 20 mm. Rule and level the surface using a serrated Darby, straight edge or spatula, then smooth the surface and allow to harden for between 5 and 16 hours depending upon the temperature. Sometimes a longer period may be necessary depending on weather and background conditions. When sufficiently set, using an I bar, scrape the surface to remove high points and begin opening the surface of the render, then using a scraping float, scrape the surface in small circular motions, removing no more than 3 mm from the surface to remove any slight imperfections and to bring the total render application to the desired scraped finish, specified thickness and to leave an unblemished finish. After scraping, remove any surplus residue from the surface by brushing with a clean, soft bristle brush. Always stand back and examine the whole surface for blemishes and unevenness. Errors must be corrected at this stage as rectification later is unlikely to be achieved. Each elevation must be scraped at the same stage, as early scraping e.g. same day, will result in a slightly darker shade and later scraping e.g. next day, in a lighter shade.

SPRAYED TEXTURED/ROUGHCAST FINISH:

Apply a minimum ruled and level 10, 13 or 18 mm base coat. Ensure the render is sufficiently dry but still in a green condition – 1 – 2 hours, then spray the textured coat to the desired effect from light Tyrolean to a Heavy Roughcast appearance to create a single monolithic coat. During the spraying process allow time between each build-up of the textured layer for the render to “semi-set” to avoid creating a slump effect in the finish. This building up process will also enable the creation of a heavy roughcast appearance.

PREPARATION (continued)

FLOATED FINISH

Trowel, Sponge or Bagged Finish – Please note: The surface appearance of floated finishes, if overworked can create a surface slurry which can cause surface micro cracking and inconsistencies in the appearance, shade, and finish. Dark shades accentuate these appearances. This is not detrimental to the render finish.

Floated finishes will also tend to leave a variable surface appearance and generate shade differences which is part of the appeal of these types of finishes.

- 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.
- Care must be taken not to let water run down the wall spoiling the finish by washing the cement out of the render.

ASHLAR DETAILING

When ashlar detailing is required allow additional render to accommodate the depth of ashlar cut and carry out the process when the render is in its semi-cured state. it is recommended that a minimum depth from the substrate to the back of the ashlar cut should be no less than 12 or 15 mm subject to thickness applied.

Ensure the mesh is deep enough not to be exposed during the ashlar cutting process.

COLOUR

- Because this is a naturally pigmented product whenever possible, obtain colour samples prior to specifying and apply a sample panel for approval before proceeding. Ensure you follow the mixing guidelines and water content for the product to avoid a shade difference.
- The quantity of material required for a given area (e.g. when applying to the same elevation) should be of the same batch number or if not, the different batches of material must be thoroughly mixed to avoid shade variations.
- Avoid applying the render to the same elevation at different times or applying half of the elevation one day and the other half another day as shade variations can occur.
- If using the **PRB ACCELERATEUR FLASH** ensure the products instructions are followed. Use throughout the render application on the same elevation and for the whole elevation. The use of accelerators tends to darken colours.

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.