

## SEMI-LIGHTWEIGHT FINE GRAINED SINGLE-COAT RENDER

### Benefits of the PRB OZÉ

-  Curing time adapted to winter conditions
-  Through colour, weatherproof, breathable and decorative render for external and internal walls
-  Suitable for all types of finish: scraped, floated, roughcast, rustic and spray texture
-  Suitable for below DPC applications (subject to conditions)



### KEY PRODUCT INFORMATION

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

**COLOURS:** 100 PRB colours + Snow (Neige)

**STORAGE:** 18 months

### 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.

- **Minimum thickness of 10 mm: 1.56m<sup>2</sup> per 25 kg bag - 16 kg/m<sup>2</sup>**
- **Minimum thickness of 12 mm: 1.3m<sup>2</sup> per 25 kg bag - 19 kg/m<sup>2</sup>**
- **Minimum thickness of 15 mm: 1.1m<sup>2</sup> per 25 kg bag - 23 kg/m<sup>2</sup>**

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.



EN 998-1 Type OC2  
CS III W2 class



## USAGE GUIDE

### WHERE TO USE?

- A weatherproofing render for exterior or interior walls on all types of housing, office or industrial buildings.
- Minimum 8 mm grouting for brick, stone, ceramic tiling on facades.
- Renovation of existing masonry (contact PRB).

### SUITABLE SUBSTRATES

- ✓ Concrete\*.
- ✓ Concrete block or brickwork\*.
- ✓ Clay insulating blocks\*.
- ✓ Existing sound renders\*.
- ✓ Lightweight aircrete concrete block of a density > 550 kg/m<sup>3</sup>\*.
- ✓ \*Some substrates may require a suction control coat of **PRB ACCROFIX PATE**. If unsure please contact us.
- ✓ Other substrates, contact us.
- ✓ For below ground concrete & concrete block walls comprising of a cavity construction, **PRB OZE** can be applied at a depth of 0.60 m max when enhanced with **PRB LATEX**.

It must be given a smooth finish and be at least 15 mm thick.

Embed a reinforcing layer of **PRB ORANGE MESH** or **PRB AVE MESH** throughout to assist against cracking.

### PROHIBITED SUBSTRATES

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

### COLOUR

- Because this is a naturally pigmented product whenever possible, obtain colour samples prior to specifying and apply a sample panel for approval. 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.

### 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.

## TECHNICAL SPECIFICATIONS

### COMPOSITION

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

### MIXING AND APPLICATION

- Mixing rate: 4.0 to 4.5 L clean water / 25kg bag.
- Mixing time: 3 to 7 mins.
- Batch life time: 60 mins. max.
- Curing time: 4 to 6 hrs
- Time before scraping: 4 to 24 hrs
- Time between applications: 1 to 48 hrs
- Max. thickness per layer: 20 mm
- Max. thickness used: 30 mm

**N.B.:** These values are standard laboratory or site testing values. The preparation conditions, substrate, and the application of the material used may modify them significantly.

### TECHNICAL CHARACTERISTICS

#### POWDER:

- Max. Grading: 2 mm

#### MIXED PRODUCT:

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

#### PERFORMANCE RENDER WHEN HARD:

- Density: 1.4 to 1.8 t/m<sup>3</sup>
- Modulus of elasticity: 5,000 to 10,000 MPa
- Bending strength: 1.5 to 2.7 MPa
- Fire behaviour (non-combustible): A1

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

- Compressive strength: CS III (3.5 to 7.5 N/mm<sup>2</sup>)
- Water permeability after freezing:  $< 1 \text{ cm}^3/\text{cm}^2$
- Permeability to water vapour:  $\mu < 35$
- Thermal conductivity ( $\lambda$  10, dry): 0.76 W/m<sup>2</sup>K (tabulated value)
- Durability/adhesion after freezing/Rupt:  $> 0.2 \text{ N}/\text{mm}^2$  A or B or C
- W2 water absorption:  $C \leq 0.20 \text{ kg}/\text{m}^2.\text{min}0.5$
- Fire behaviour (non-combustible): A1

SCAN THE QR CODE BELOW  
TO FIND THE MATERIAL  
QUANTITY NEEDED



**Material calculations on the go.**

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

The image shows two smartphones. The left one displays a 'Substrate\*' selection screen with a dropdown menu set to 'Medium Density Block (Old)'. Below it is a 'Square Metre\*' input field with '100' entered and a 'Calculate' button. The right smartphone shows a 3D rendering of a wall section with a vertical orange stripe, and a table with columns 'Product', 'Quantity', and 'Cover'. The table lists 'ACORON® A11 (20)' with a quantity of 3 and a cover of 33m<sup>2</sup>, and 'AVNOS Minus' with a quantity of 2.

## APPLICATION

### 1. SUBSTRATE PREPARATION

- Substrates must be sound, clean, free of dust, 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 of **PRB ACCROFIX PATE** and / or **PRB ORANGE MESH** or **PRB AVE MESH**. For full application guidance, request a specification from PRB.
- During hot weather and/or dry windy conditions, to prevent the risk of render dehydration, the substrate must be sprayed to saturation the day before application and wet again if necessary before application.

### 2. SPRAYING EQUIPMENT SETTINGS

#### Render pumps:

- Water pressure setting: 12 to 14 bars
- Mixed product operating pressure: 18 to 24 bars
- Lance output flow rate: 14 to 18 L/min
- Spray nozzles (min. Ø): 12 mm

#### Spray pots:

- Air pressure: 6 to 8 bars.

### 3. MORTAR PREPARATION

#### Render spraying pumps - Cement mixers:

- Mix **PRB OZE** with 4 to 4.5 L of clean water per 25 kg bag for 5 minutes.
- The water dosage and the mixing time must 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.
- Hand 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, straight edge or spatula.

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

### 4. APPLICATION AND TYPES OF FINISH

Apply the **PRB OZE** 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 corners of the openings to provide crack resistance. In addition, full or partial mesh may also be required for enhanced benefit.

#### 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.

## APPLICATION

### FLOATED FINISH:

Trowel, Sponge or Bagged Finish – Please note: If the render is over worked, these application techniques may cause micro cracking that can be detrimental to the appearance or aesthetics. Floated finishes 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.

The surface appearance of floated finishes, if overworked can create micro cracking in the surface and will create inconsistencies in the appearance, shade, and finish. This is part of their appeal. Dark shades accentuate these appearances. This is a normal scenario to be expected with these types of finishes.

### ASHLAR DETAILING:

When ashlar detailing is required allow additional render thickness 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, 15 or 20 mm subject to application requirements.

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

Technical sheet - January 2024

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.

## 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.

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