

PRB STYLDÉCOR

DECORATIVE RENDER FOR DECORATING AND MODELLING FACADES



The **+** s of PRB STYLDÉCOR

- +** Applied by mechanical spraying and/or by hand
- +** Patterned, roller or stencil finishes (see PRB STYLDÉCOR accessories in the catalogue and the "Sculptured Mortars and Renders" brochure)

PACKAGING

– Paper bag containing 25 kg.

STORAGE LIFE: 12 months.

CONSUMPTION/USE

– The consumption varies depending on the surface (type, flatness, roughness, etc.).

– **Minimum thickness of 10mm: 14.5 kg/m²**

Depending on the thicknesses to be used, for mouldings and false stonework, we recommend the rule of 3.

COLOUR: 100 PRB colours and Sun + colours.



EN 998-1 Type OC2
CS category II



APPLICATIONS

USES

- Exterior and interior walls on all types of buildings for residential, tertiary or industrial use.
- French DTU 26.1 - P1-1, P1-2 and P2 - Mortar plastering work.
- French DTU 20.1 Masonry work, small elements in walls and partitions.
- French DTU 21 Creating concrete structures.
- French DTU 23.1 Cast-in-place concrete walls.
- French DTU 22.1 Large external walls - solid or ribbed slab type - made from ordinary concrete.

SUITABLE SUBSTRATES RT2 & RT3

New masonry:

- Breeze blocks or brickwork (DTU 20.1) with standard or narrow joints.
- Cast-in-place concretes (French DTU 23.1).
- Cement undercoats and mixes (French DTU 26.1).

Existing masonry with sound mechanical properties:

- Rubble, stone, brick - French DTU 26.1.
- Existing unpainted cement renders and/or mixes.
- Existing unpainted single-layer renderings.

- For other substrates, please contact us beforehand.

UNSUITABLE SUBSTRATES

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

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.
- Do not use strong colours (dark range) at temperatures below 8°C and with high humidity (increased risk of efflorescence or carbonation).

TECHNICAL CHARACTERISTICS

INGREDIENTS

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

PRODUCTS

POWDER:

- Grain size: 2 mm

PASTE:

- Water retention: 95 to 97%
- pH (alkaline): 12.5 ± 0.5

APPLICATION:

- Quantity of water needed: 25 ± 2%.

PERFORMANCE WHEN HARDENED:

- Density: 1.2 to 1.6 t/m³
- Modulus of elasticity: 3,500 to 7,000 MPa
- Flexural strength: 2 to 3.5 MPa

PERFORMANCE ACCORDING TO EN 998-1.

- Compressive strength: CS II (1.5 to 5 N/mm²)
- Water permeability after freezing: <1 cm³/cm²
- Water vapour permeability (co-eff.): μ <20
- Thermal conductivity (λ, 10, dry): 0.54 W/mK (established value).

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- Durability/adhesion after freezing/Rupture: >0.2 N/mm² A, B or C.
- Water absorption (W2): Capillarity ≤0.20 kg/m².min^{0.5}
- Reaction to fire (non-combustible): A1 (M0)

APPLICATION

- Quantity of water needed: 24 to 27%
- Mixing time: 3 to 7 mins
- Mixture handling time: 60 mins max.
- Setting time - before contact with water: 4 to 6 hrs
- Setting time - structuring: 3 to 24 hrs

- Setting time - between layers: 1 to 48 hrs
- Maximum thickness per layer: 20 mm
- Maximum working thickness: 35 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 (NEW OR OLD)

- 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.

PREPARING THE RENDER

Mortar pumps/sprayers & concrete mixers (batch mixers)

- Add PRB STYLDÉCOR to 6 to 6.75 litres of clean water per 25 kg bag and mix for 5 mins.
- The water ratio and mixing time should be as consistent as possible to ensure regular colour throughout the application.
- Similarly, if using batches from different dates, these should be mixed proportionally to avoid irregular colouring.

PUMP/SPRAYER SETTINGS

Grouting pump

- Set the water pressure to: 12 to 16 bars
- Paste operating pressure: 18 to 24 bars
- Sprayer flow rate: 12 to 15 l/min
- Spray nozzles (min. Ø): 12 mm

Spray guns

- Air pressure: 6 to 8 bars

Manual

- With a very plastic consistency, the product can be applied with a mortar trowel, overlapping slightly, smoothing the undercoat by levelling with a straight edge.



UTILISATION (continued)

SPRAY APPLICATION AND MANUAL SCULPTING

Please refer to the specifications.

A For concrete blocks or terracotta masonry elements

- If necessary, wet the surfaces 30 mins before application.
- Apply a base coat from 8 to 12 mm thick on the surface to be modelled with a rough, level finish.
- The colour should match the stone joints.
- This base coat provides a protective, waterproofing layer for the substrate.

B For concrete masonry and rendered masonry

- If necessary, wet the surfaces 30 mins before application.
- Make a roughcast base coat to ensure the adhesion of the PRB STYLDÉCOR - before making this base coat, mix the mixing water with ½ litre of PRB LATEX per 25 kg bag.

Or,

- PRB ACCROFIX POUDRE (ready-to-use roughcast layer).
- If necessary, apply a base layer to give the appearance of stone joints.

C For corner bricks

- On the previously applied undercoat, once the product has set (a few hours later or the next day), spray the corners with PRB STYLDÉCOR at a thickness of 18 to 27 mm, roughly forming the appearance of the stones that will form the corners.
- Once the joints have firmed up, cut them on both sides with a cutter and remove them.
- Create the surface structure of the corner stones (scraped, trowelled, sanded, floated, circular float-finish, etc.) according to the desired appearance.
- Re-point the next day with PRB STYLDÉCOR of the same or a different colour (brushed or scraped joint finish).

D For stone-effect rendering

- Once the product has set (a few hours later or the next day), spray a second rough coat of PRB STYLDÉCOR, spraying in such a way as to obtain a surface with bumps and hollows to form false stone.
- The final thickness of the two layers should be between 10 and 18 mm, but never more than 25 mm at a single point.

E For creating a patina effect and colour shading

- Apply a piece of wet polythene to the wall and then press your hand randomly over the surface of the polythene to create the desired effect - Gloves should be worn when performing this operation.
- The folding effect of the polyane, as well as the bubbling, creates a natural stone effect.
- At the bottom of the wall, create several heaps of 2 to 3 kg of colours composed of PRB STYLDÉCOR render with a white base (coastal white) and add pigments (natural shade, dark brown, light brown, etc.) depending on the desired shades, then mix them by hand.
- Once you have obtained a paste-like and smooth consistency, apply the mixture with a spray gun (nozzle Ø 6 mm), randomly over a thickness of 1 to 3 mm, from the lightest to the darkest colour, without overlapping the different colours.

F For manual sculpting (without accessories)

- Leave the render to set for approximately 1 to 4 hours, depending on the weather conditions.
- Sculpt and scrape out the joints with a putty knife, scraper, or any other suitable tool.
- To give the surface a smoother, older look, sweep it with a natural fibre brush, using varying degrees of pressure depending on the desired appearance.

Or,

G For applying a stencil before sculpting by hand

- Leave the render to set for approximately 1 to 4 hours, depending on the weather conditions.
- Pay close attention to the order in which the stencils are placed (N°1 / N°2 / N°3) and fix them in place with nails.
- Mark the joints by removing the coloured surface of the render using a suitable tool (brush, pointed trowel, etc.).
- Remove the stencils.
- Following the marked joints, hollow out the render using a scraper, pointed trowel or any other suitable tool.
- To give the surface a smoother, older look, sweep it with a natural fibre brush, using varying degrees of pressure depending on the desired appearance.

SPRAY APPLICATION AND MANUAL SCULPTING OR FOR FINISHING WITH PIERRENDUIT

A For concrete blocks or terracotta masonry elements.

- If necessary, wet the surfaces 30 mins before application.
- Apply a base coat from 8 to 12 mm thick on the surface to be modelled with a rough, level finish.
- This base coat provides a protective, waterproofing layer for the substrate.

B For concrete masonry and rendered masonry.

- If necessary, wet the surfaces 30 mins before application.
- Make a roughcast base coat to ensure the adhesion of the PRB STYLDÉCOR - before making this base coat, mix the mixing water with ½ litre of PRB LATEX per 25 kg bag.
- Or,
- PRB ACCROFIX POUDRE (ready-to-use roughcast layer).

C Pattern template finish (with stencil or roller)

- Once the base coat / rough coat has set (after a few hours, or the next day), spray PRB STYLDÉCOR over the surface, level using a serrated straight edge and smooth it out with a trowel.
- *1 For rectangular facades, take the level at the top along the entire length of the facade and apply the pattern moving downwards.
- *2 For a gable, take the level at the lower end of the gable and apply the pattern (square with the lowest level) moving downwards.
- *3 For triangular part of gables, apply the pattern working towards the top

Please note: for easy pattern removal and to prevent the pattern template from sticking:

- Micro sand the rendered surface using PRB NE 34 sand (25 kg bag) and a compressed air machine.

PATTERN TEMPLATE FINISH

- We do not recommend the use of liquid form release agents, as these can stain or discolour the render.
- Apply the pattern template to the previously marked level, roll with a rubber roller and remove the template.
- Repeat as many times as necessary along the same line.
- Offset the 2nd row so that the patterns are different from one row to the next.
- Move on to the 2nd row as soon as you have removed the pattern template from the first.

FINISHING WITH A PATTERNED ROLLER.

- We do not recommend the use of liquid form release agents, as these can stain or discolour the render.
- Roll from top to bottom, respecting the joints and edges.

FINISHING BY SPRAYING PIERRENDUIT COLOURED AGGREGATES

- Spray PIERRENDUIT coloured aggregates onto fresh STYLDÉCOR render.
- Embed the aggregates into the render with the appropriate finishing tool to achieve the desired effect (roller, patterned template, float, etc.).
- For more information, please read the PRB process sheet.

POINTS TO NOTE

- When applying, you may need to divide the surface into sections depending on the structure and the surfaces to be covered in order to limit shrinkage and expansion phenomena.
- Respect the existing expansion joints.
- Protect sharp horizontal angles using additional structures (acroterion flashing, window sills, top protection, etc.) to prevent water from penetrating between the Styledécor render and the substrate.

PLEASE NOTE: PRB STYLDÉCOR is not suitable for immersed, buried or unprotected horizontal applications.

PRECAUTIONS FOR USE

- Contains cement and/or lime.
- Refer to the packaging safety label and safety data sheet before use.