PRB MONOCOUCHE SEMI ALLÉGÉ R&D



SEMI-LIGHTWEIGHT, FINE-GRAINED, ECO-DESIGNED SINGLE-LAYER PLASTER

The 👓 s of PRB MONOCOUCHE SEMI ALLÉGÉ R&D

- Carbon footprint reduced by 48%*
- Guaranteed cement-free**
- Waterproofing and decorating Rt1, Rt2 & Rt3 exterior walls (see conditions) and interior walls
- All types of finishes (fine scrape, float-finish) & roughcast)
- Can be used underground (see conditions)



EN 998-1 Type OC2 CS category: Il Wc2







PACKAGING

Paper bag containing 25 kg.

STORAGE LIFE: 18 Months.

CONSUMPTION/USE

The consumption varies depending on the surface (type, flatness, roughness, etc.). NB: The thickness at all protruding points of the facades must be at least 10 mm, in order to ensure proper waterproofing

- Minimum thickness of 10 mm:

Concrete surface and undercoat:

For decorative plastering, the thickness must be 5 mm at all points
— Minimum finished thickness of 5 mm: 7.5 kg/m² 7.5 kg/m²

- Maximum finishedthicknessof15mm:22kg/m²

COLOUR: 25 PRB colours

- * Calculated against a product of the same category, functional unit and useful life (see the FDES document on the INIES website FR).
- ** Please note: curing time extended (see section implementation /or/ application)

APPLICATIONS

IISFS

- Waterproof coating for exterior or interior walls, on all types of buildings, for residential, tertiary or industrial use
- Joints (min. 8 mm) for bricks, stone and ceramic facades.

REFERENCE DOCUMENTS

 French DTU Standard 20.1, French DTU Standard 23.1, French DTU Standard 26.1, French DTU Standard 59.1, French DTU Standard 42.1, French DTU Standard 52.2,

SUITABLE SUBSTRATES (see selection guide)

- . Concretes (French DTU 23.1)
- Masonry with breezeblocks and common or light aggregates or bricks with traditional or thin joints (French DTU 20.1).
 - · Cement undercoats and mixes (French DTU 26.1).
- Please contact us if you wish to use this product on old masonry and other surfaces (French DTU 26.1).
- Cellular concrete masonry density >500 kg/m³ according to NF EN 772-13.
- · For underground walls of category III private homes, as defined in the French DTU Standard 20-1, the PRB

MONOCOUCHE SEMI ALLÉGÉ R&D should

be applied to the outside of the buried wall to a maximum depth of 0.6 m. It must be compacted and finished with a smooth or trowel finish and have a minimum thickness of 15 mm. A 40 to 60 cm wide reinforcing strip of alkali-resistant fibreglass should be inserted into the first coat or layer, at the capillary break, to reduce the risk of cracking.

 Make a horizontal capillary cut in the plaster, 15 cm from the finished floor, using the cutting edge of a trowel, then fill in with a cord of SNJF-certified 1st category sealant. The underground part concerns category 3 walls only, according to the French DTU Standard 20.1.

UNSUITABLE SUBSTRATES

- All gypsum-based surfaces (plaster)
- Paint & thick paint coatings.
- · Horizontal or inclined surfaces (except for archways or undersides of mouldings)

APPLICATION CONDITIONS

- Between 5°C and 35°C.
- \bullet Do not apply to frozen, thawing, hot or damp surfaces. Do not apply to surfaces in full sunlight or during heavy rain and strong

TECHNICAL CHARACTERISTICS

INGREDIENTS

- · Binders (natural hydraulic lime and calcium lime), fillers, sands and aggregates.
- Water-retention agents & setting agents.
- · Water-repellent agents.

PRODUCTS

POWDER:

- Max. grain size: 2 mm PASTE:
- Water retention: 91%
- pH (alkaline): 12.5 ± 0.5

PERFORMANCE OF THE MORTAR WHEN HARDENED:

- Density: 1.3 to 1.7 t/m³
 Modulus of elasticity: ≤5000 MPa
 Flexural strength: 1 to 2.5 MPa

PERFORMANCE ACCORDING TO EN 998-1 - SINGLE-LAYER MORTAR: Compressive strength:

CS II (1.5 to 5 N/mm²)

- Water permeability after freezing: ≤1cm³/cm²
- Water vapour permeability: μ <35
- Heat conductivity (λ 10, dry): 0.53 W/(m.K) (established value)

- Durability/adhesion after freezing/Rupture: ≥0.2 N/mm² A, B or C.
- Water absorption (Wc2): C ≤0.20 kg/m².min^{0.5}
- Reaction to fire (non-combustible): A1 (M0).

PPLICATION

⚠ The cement-free formulation extends timelines between layers and delays scraping. Do not use Accelerator with cement-free material.

- Quantity of water needed: 20 to 22%
- Mixing time: 3 to 7 mins
- Mixture handling time: 60 mins max.

- Setting time before contact with water: 8 to 24 hrs
- Setting time before scraping: 8 to 24 hrs
 Setting time between layers: 24 to 72 hrs
- Maximum thickness per layer: 20 mm • Maximum working thickness: 30 mm (Localised)
- . Min. thickness (waterproofing): 10 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

APPLICATION

PREPARING THE SURFACES

- Surfaces must be clean, dust-free, stable. and any large chips, cracks or dents must be filled in beforehand.
- Spray the surfaces with water 1/2 hour before application and allow to dry (matt appearance) before applying the plaster,
- Refer to "Preparing the surface", as well as to "Applying single-layer plaster according to the condition of the surface".

PREPARING THE MORTAR

- Mortarspraying pumps.
- · Concrete mixers (batch mixers)
- Add PRB MONOCOUCHE SEMI-LÉGER R&D to 5 to 5.5 liters of clean water per 25 kg bag and mix for 5 minutes.

- The water ratio and mixing time should be kept as consistent as possible to ensure a uniform application, an even shade/colour and a smooth, optimum finish.
- · Also, when using different batches, you should mix them proportionally in order to avoid any differences in colour.

SETTING UP THE PROJECTION EQUIPMENT

Grouting pump

- Set the water pressure to: 12 to 14 bars
- Paste operating pressure: 18 to 24 bars
- Sprayer flow rate: 14 to 18 L/min
- Spray nozzles (min. Ø): 12mm. Hand-held plastering machine
- · Air pressure: 6 to 8 bars.

Manual application

- The plaster can be applied in small strokes with a plastic mortar trowel, overlapping
- Level the 1st layer by smoothing the plaster with a large ruler.

APPLICATION AND TYPE

- **OF FINISH** · Applying the plaster in 2 layers:
- 1st layer: 8 to 10 mm,
- 2nd layer: 5 to 10 mm, depending on the finish
- Finish: Fine scrape, Rough scrape, Rustic, Rustic roughcast, Float-finish, Circular Float-finish.
- Apply in accordance with the "Types of

• See the "Selection Guide" for possible types of finishes.

For façades:

· Laying terracotta tiles glued on small surfaces (plinths, lintels and window surrounds, the bottom of loggias, balcony structures, etc.).

PRECAUTIONS FOR USE

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

Technical Data Sheet - 29 August 2022