

# PRB TRADI GP

## AIR-SLAKED LIME RENDER



### The **+**s of PRB TRADI GP

- +** Undercoating render for Rt2 and Rt3 exterior walls and interior walls
- +** Easy handling and flexibility of traditional air-slaked lime renders
- +** Lets surfaces breathe
- +** Can support a terracotta tile finish

**CE** EN 998-1 Type GP  
CS category III



#### PACKAGING

– Paper bag containing 25 kg.

**STORAGE LIFE:** 18 months.

#### CONSUMPTION/USE

Consumption varies according to the substrate (nature, flatness, roughness).

≈ **16 to 17 kg/m<sup>2</sup>** for an application thickness of 10 mm.

**COLOUR:** Grey



## APPLICATIONS

### USES

- The first layer of a two-layer rendering process.
- Subject to chapters 6 and 12 of the French DTU 26.1 - P1-1.
- French DTU Standards 26.1 - P1-1, P1-2 and P2
- EN 998-1.
- French DTU Standards 20.1, 23.1 & 52.2.

### SUITABLE SUBSTRATES

- New substrates: Rt2 and Rt3 in accordance with the French DTU 26.1.**
- Concrete block masonry (breezeblocks) and bricks, subject to the French DTU 20.1 (Masonry structures with small elements).
  - For other substrates, please contact us before use.

### Old substrates:

- Old masonry consisting of rubble stone, stone and brick, mortared with weak/poor quality mortar (lime, lime/cement, earth,...).

### UNSUITABLE SUBSTRATES

- All gypsum-based substrates (plaster) directly.
- Paint & thick paint coatings.
- Adobe, cob & raw earth.
- Bare wood.
- Horizontal or sloping surfaces (except arches and soffits).

### COMPATIBLE SURFACING

#### MATERIALS

##### Hydraulic renders:

- PRB BELLE ÉPOQUE Finition, PRB MANUPRO, PRB ENDUIT DE FAÇADE TYROLIEN, PRB SUPERBRUT, PRB FINICHAUX, PRB 6000 R & PRB ALG Fin.

##### Thick paint coatings\*,

##### Semi-thick coatings - thick mineral coatings

\* The entire range of PRB paints.

##### Glued/bonded coatings

##### For façades:

- Coatings can also be glued to CSIII resistant renderings, provided that the gluing is limited to small areas for tiles, stones and similar materials (e.g.: fascia band, door beams, frames, plinths, etc.) or,

- Small elements (e.g. terracotta tiles) laid with wide joints (> 6 mm), up to 28 m (French DTU Standard 52.2).

##### For interior walls:

- Compatible with all tiles listed in the French DTU Standard 52.2.

### 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.
- Special conditions: see the "Application Guidelines" chapter in the Facade Catalogue.

## TECHNICAL CHARACTERISTICS

### INGREDIENTS

- Air-slaked lime (calcium lime or fat lime) & hydraulic binders (hydraulic limes).
- Alluvial sands from quarries, rolled and classified.
- Specific additives.
- Colour: light grey.

### PRODUCTS

#### PASTE:

- Water retention: 93 to 97%
- pH (alkaline): 12.5 ± 0.5

### PERFORMANCE WHEN

#### HARDENED:

- Density: 1.4 to 1.8 t/m<sup>3</sup>
- Modulus of elasticity: 5,000 to 10,000 MPa
- Flexural strength: 2 to 3.5 MPa

#### PERFORMANCE ACCORDING TO THE EN 998-1 STANDARD GENERAL PURPOSE LIME-BASED UNDERCOAT MORTAR - CS CAT III.

- Compressive strength: CS III (3.5 to 7.5N/mm<sup>2</sup>)
- Water vapour permeability:  $\mu < 35$

- Thermal conductivity ( $\lambda$ , 10, dry): 0.76 W/mK (established value)

- Durability/adhesion after freezing/Rupture: >0.2 N/mm<sup>2</sup> - A, B or C.

- Water absorption (Wc1): Capillarity <0.40 kg/m<sup>2</sup>.min<sup>0.5</sup>

- Reaction to fire (non-combustible): A1 (M0)

### APPLICATION

- Quantity of water needed: 15 to 17%
- Mixing time: 3 to 7 mins
- Mixture handling time: 60 mins max.

- Setting time - before contact with water: 4 to 6 hrs
- Setting time - between layers: 48 hrs

**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 MORTAR

#### Mortar pumps/sprayers -

#### Concrete mixers (batch mixers)

- For every 25 kg bag, mix PRB TRADI GP with 3.75 to 4.25 L of clean water for 5 mins.
- The water ratio and mixing time should be kept as consistent as possible to ensure a uniform application.

### PUMP/SPRAYER SETTINGS

#### Grouting pump

- Set the water pressure to (100 rpm): 12 to 14 bars
- Paste operating pressure: 16 to 24 bars (depending on operating flow rate)
- Sprayer flow rate: 14 to 18 L/min
- Spray nozzles (min. Ø): 12

#### Spray guns

- Air pressure: 6 to 8 bars

#### Manual

- Once the product is mixed to a very plastic consistency, it can be applied with a mortar trowel, overlapping slightly.
- Level the base layer by smoothing the render with a straight edge.

### PREPARING THE SUBSTRATE AND APPLICATION

- Surfaces must be clean, dust-free, stable, adherent and any chips, cracks or dents must be filled in beforehand.
- Wet the surface at least 30 minutes before application.

**New masonry:** Rt2 (solid bricks,...) and Rt3 (breeze blocks,...) structures.

- Apply PRB TRADI GP to a minimum of 10 to 12 mm for a hydraulic render finish

and to a minimum of 15 mm for an organic finish.

**Please note:** in the event of adhesion defects, differences in porosity, differential absorption of the substrate or colour variations in the substrate: Spray (either as a roughcast bonding layer or as the 1st coat) PRB TRADI GP, adding 1/3 to 1/2 litre (33 to 50 cl) of PRB LATEX per 25 kg bag to the mixing water.

For information on preparing the substrate, please refer to the "Application Guidelines" chapter in the Facade Catalogue.

**Existing masonry:** (stones, solid bricks, rubble stone,...)

Please contact the PRB technical department.

#### Structuring the PRB TRADI GP surface before finishing:

- Hydraulic render: Roughcast, serrated straight edge or scraper.

- Paints, thick paint coatings & semi-thick coatings: float-finish in 2 coats.

- Facing tiles: level with a straight edge.

#### Setting time - before applying the finish:

- Hydraulic render: 7 days
- Thick paint coatings or semi-thick coatings: 3 weeks
- Thick or semi-thick paints: 3 weeks
- Tiles and similar (small areas): 3 weeks
- Facing tiles (terracotta): 3 weeks

### PRECAUTIONS FOR USE

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

Technical Data Sheet - 9 June 2022



PRB TRADI GP  
SMOOTHING RENDERS / UNDERCOATS: UNDERCOATS  
STANDARD AND SINGLE-LAYER UNDERCOATS

FAÇADES