

# PRB TRADICLAIR 170

SINGLE-COAT SEMI-HEAVY RENDER UNDERCOAT



PRB TRADICLAIR 170  
SMOOTHING RENDERS / RENDER UNDERCOATS: STANDARD RENDER UNDERCOATS AND SINGLE-COAT BASE LAYERS

## The **+**s of PRB TRADICLAIR 170

- +** Waterproofing for Rt3 external walls and interior walls
- +** Compatible coverings, paints and RPE, hydraulic renders
- +** Can be left bare and can be buried

### PACKAGING

– Paper bag containing 25kg.

**STORAGE:** 18 months.

### CONSUMPTION/USE

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

**NB:** *the minimum finished thickness required to guarantee waterproofing is 10mm at all points.*

- Minimum thickness of 10mm: 16 kg/m<sup>2</sup>

**NB:** *For decorative rendering, the minimum finished thickness required is 5mm at all points.*

- Minimum thickness of 5mm: 8 kg/m<sup>2</sup>

**COLOUR:** Light grey.



EN 998-1 Type OC3  
Category CS III



## APPLICATIONS

### USES

- Exterior and interior walls on all types of buildings for residential, tertiary or industrial use.
- Sound, sturdy old builds (contact us).
- Joints (min 8mm) on brick, stone and ceramic facades.
- DTU 20.1, DTU 23.1, DTU 26.1 (P1-1, P1-2 and P2), DTU 52.2.

### SUITABLE SUBSTRATES

- (see Selection Guide)
- Cast-in-place concrete (DTU 23.1).
  - Breeze block masonry (DTU 20.1) with standard or narrow joints.
  - Cement and lime-cement render undercoats (DTU 26.1).
  - Old masonry and other substrates (contact us).

### UNSUITABLE SUBSTRATES

- All gypsum-based substrates (plaster).
- Paint, waterproof paint.
- Bare wood.
- Horizontal or sloped surfaces (except arches and soffits).

### COMPATIBLE COVERINGS

- All non-saponifiable interior and exterior paints.
- Thick paint coatings applied in accordance with DTU 59.1 and NFT 30-700.
- Semi-thick coatings (NFT 34-720).
- Decorative and trim paints (D2, D3, etc.).
- I1 to I4 waterproof paint.
- Single-coat and topcoat hydraulic render.
- Bonded tiles (contact us):

#### For facades:

Natural terracotta tiles on large surfaces up to 28m (DTU 52.2).

#### For interior walls:

Compatible with all tiles described in DTU 52.2.

### APPLICATION CONDITIONS

- Between 5°C and 35°C.
- Do not apply to frozen, thawing, hot or wet substrates, or in full sunlight, heavy rain or high winds.
- Special conditions: see *"Preparing the substrate"*.

## TECHNICAL CHARACTERISTICS

### COMPOSITION

- Binders (cement, natural hydraulic lime, high calcium lime).
- Fillers, sand and quartz aggregates.
- Water retention agents, setting agents.

### PRODUCTS

#### POWDER:

- Max. grain size: 2 mm

#### PASTE:

- Water retention: 91 to 97%
- pH (alkaline): 12.5 ± 0.5

### PERFORMANCE OF THE RENDER ONCE CURED:

- Density: 1.4 to 1.8 t/m<sup>3</sup>
- Elastic modulus: 5,000 to 10,000 MPa
- Flexural strength: 1.5 to 2.7 MPa

### PERFORMANCE OF THE RENDER ACCORDING TO EN 998-1 OC SINGLE-COAT MORTAR:

- Compressive strength: CS III (3.5 to 7.5 N/mm<sup>2</sup>)
- Water permeability after freezing: ≤ 1 cm<sup>3</sup>/cm<sup>2</sup>
- Water vapour permeability: μ < 35
- Thermal conductivity (λ, 10 sec): 0.76 W/mK (listed value)

- Durability/adhesion after freezing/Rupt: ≥ 0,2 N/mm<sup>2</sup> A, B or C
- W2 water absorption: Capillarity ≤ 0.20 kg/m<sup>2</sup>.min0.5
- Reaction to fire (non-combustible): A1 (M0)

### UTILISATION

- Quantity of water: 14 to 18%
- Mixing time: 3 to 7 min
- Workable life: 60 min max.
- Water protection time: 12 to 48 hours
- Time between coats: 1 to 48 hours
- Maximum thickness per coat: 20 mm
- Total maximum thickness: 30 mm

**NB:** These values are estimates derived from laboratory or on-site testing. The conditions of use, the type of material used and its level of wear and tear can significantly alter them.

## UTILISATION

### PREPARING THE SUBSTRATE

- Substrates must be clean, dust-free, stable and repaired beforehand where major chips or spalls are found.
- 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.
- See *"Preparing the substrate"*, and *"Utilisation of single-coat renders according to the condition of the substrate"*.

### PREPARING THE MORTAR

- Mortar pumps / sprayers - Concrete mixers (batch mixers)**
- For every 25kg bag, mix PRB TRADICLAIR 170 with 3.5 to 4.5 l of clean water for 5min.
  - The water dosage and mixing time should be as consistent as possible to ensure regular colour throughout.
  - Similarly, if using batches from different dates, these should be mixed proportionally to avoid irregular colouring.

### PUMP / SPRAYER SETUP

#### Mortar pump

- Pressure (calibrated with water): 12 to 14 bar
- Operating pressure (mix): 18 to 24 bar
- Output: 14 to 18 l/min
- Spray nozzles (min. ø): 12 mm

#### Spray guns

- Air pressure: 6 to 8 bar

#### Manual application

- With a very plastic consistency, the product can be applied with a trowel in slightly overlapping movements.
- The base layer is levelled by smoothing the render with a straight edge.

### APPLICATION AND TYPES OF FINISH

- Finish with a straight edge or scraper in preparation for a cement/lime coating or two-coat trowelling.
- Application according to the *"Types of Finish"*.
- For the different types of finish possible, see the *"Selection guide"*.

### USER PRECAUTIONS

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