

# PAREXAL

- Thin-coat restoration
- Suitable for wine-making environments
- High lime content



1/2

## RESTORATION RENDER



### DEFINITION

Integrally coloured natural hydraulic lime restoration render intended for protecting and decorating the face walls of old buildings. PAREXAL can also be used for exposed stonework, repointing bricks and facing stone, facing and waterproofing stonework and finish render.

### FINISHES

- Floated
- Felted
- Finely scraped
- Cut
- Spray-textured
- Brushed

### SUBSTRATES

#### SUITABLE SUBSTRATES

- Old quarystone, brick and natural stone including soft stone (chalk, freestone, etc.) masonry constructed using weak mortar (DTU 26.1).
- Loam, adobe, clinker, cob, laterite mud and hemp constructions.
- Roughcast plaster-based masonry prepared with GOBETIS SPECIAL A.
- Masonry coated with a sub-render conforming to DTU 26.1, such as TRADIREX, PARMUREX, MONOGRIS E, PARLUMIERE CLAIR and PARLUMIERE STH.
- New masonry (Rt3 and Rt2) using concrete blocks, bricks and terracotta blocks.
- Lightweight concrete blocks (Rt1): contact us for information
- PARINTER RENOVATION

#### UNSUITABLE SUBSTRATES

- Exclusively non hydraulic lime or gypsum renders, paints and thick plastic coatings.
- Lightweight hydraulic renders with lower mechanical strength than PAREXAL.
- Exposed substrates at an angle of more than 10° from the vertical.

### SPECIFICATIONS

#### Composition

- Binder: mainly NHL natural hydraulic lime 3.5 binder, non hydraulic lime and hydraulic admixtures to regulate the setting properties. Natural hydraulic lime and non hydraulic lime/binder = 85% by volume.
- Fillers: calcareous and siliceous sand with adapted grading curves: 100% passing at 2 mm and 80% passing at 1.2 mm.
- Light mineral admixtures
- Less than 0.3% organic and water-repellent rheological admixtures.
- Mineral pigments.

#### Performances

- Class: OC
  - Water absorption: W2.
  - Compressive strength: CS I
- PAREXAL optimises bonding by "moulding" itself to masonry elements.

- Apparent density: 1,400 kg/m<sup>3</sup>
- Modulus of elasticity: 2,800 MPa
- Tensile strength: 1 MPa
- Water retention: 96%
- Low capillarity: < 1g/dm<sup>2</sup>.√mn
- Compressive strength: 2 MPa
- Low soluble salt content (sodium and potassium): 0.10%
- Adapted porosity: above 35%.
- High water vapour permeability: above 0.8 g/mm<sup>2</sup>.h.mm Hg.
- Resistance to water vapour diffusion μ: approx. 10;

*All results quoted are average values calculated from laboratory results obtained using standardised procedures.*

### INSTRUCTIONS

#### Substrate preparation

- Sound, clean and dedusted.
- Treat rising damp due to capillary action (e.g. with 232 PARINJECTION).
- Check soundness, remove any loose parts, paints, organic coatings and plaster.
- Rake out cracks to a depth of 1 to 3 cm; Replace damaged elements.
- Soak the substrate until saturated the day before and wet it again on the day of application, making sure the substrate is damp right through but dry on the surface before applying the render.
- Do not dampen earth-based substrates. Apply a CHAUX DE PAVIERS lime wash or a key coat of PALUMIERE CLAIR with the addition of 0.5 litre of FIXOPIERRE per bag.
- For special preparations, consult the Avis Technique (Technical Appraisal Document).

#### Tools

- Manual application: trowel/float.
- Mechanical application.

|                 | RENDERING MACHINE  | HAND-HELD PLASTERING MACHINE |
|-----------------|--------------------|------------------------------|
| • Pump pressure | 6 to 8 bar (water) |                              |
| • Air flow      |                    | Minimum 60 m <sup>3</sup> /h |
| • Air pressure  |                    | 4 to 6 bar                   |

#### Product preparation

- Water content: 6 to 7 litres per 30 kg bag
- Mixing time in machine: 5 minutes
- Mixing time in concrete mixer: 5 to 7 minutes

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### APPLICATION

#### Render for exposed stone and repointing

- Fill joints to a depth of 1 to 3 cm in a single coat compacted with a trowel or small pointing trowel. Brush after drying or scrape with the edge of a trowel.

#### Render over old masonry – thickness of 10 to 25 mm

- Apply 1 coat in at least 2 compacted passes, separated by approximately 4 hours before firming up. The first levelling pass compacts the render to 5 mm above the bare masonry level. To ensure the waterproofing function, the finish render must cover the masonry to a depth of at least 10 mm in all areas.

#### Very thick render over masonry – up to 5 cm maximum

- Apply 1 coat in 2 passes, compacted and separated by approximately 4 hours before firming up, depending on the thickness and weather conditions. The first levelling pass is compacted using a serrated straight edge to 5 mm above the bare masonry level. For continuous levelling coats of 2.5 to 5 cm, attach a TM20 galvanised reinforcing frame.

#### Render over loam, adobe, clinker, laterite mud, cob, and hemp – maximum thickness of 10 to 25 mm

- Apply 1 coat in 2 passes, depending on the thickness and finish, compacted over a rough and hardened key coat of either PAREXAL with the addition of 0.5 L of FIXOPIERRE per bag or a key coat or lime wash of CHAUX DE PAVIERS. Never dampen loam. Loose or heterogeneous substrates should be strengthened with a flexible, large-mesh reinforcing framework.

#### Render over roughcast gypsum-based plaster mortar - thickness of 10 to 25 mm

- Rake out joints to depth of 4 to 5 cm. Brush the substrate using a wire brush, dedust and then attach a TM 20 galvanised metal large-mesh reinforcing framework. Dampen the substrate slightly and cover it with a GOBETIS SPECIAL A key coat, sprayed on in a thin layer with a rough textured finish, including into the joints, without overloading. After 24 hours, apply a coat of PAREXAL in 1 or 2 consecutive passes. To ensure the waterproofing function, the finish render must cover the masonry to a depth of at least 10 mm in all areas.

#### Finish coat – thickness of 5 to 12 mm

- Apply one compacted coat in 1 or 2 passes, fresh-on-fresh, depending on the desired finish, over an existing hydraulic render, whose function is to waterproof the masonry.

### FINISHES

- Floated, felted, cut, scraped, spray-textured or smoothed. See PATRIMOINE colour chart. Associated decorative mineral coatings: CALCIDECO, CALCILANE BADIGEON, CALCILANE ENDUIT and CALCILANE ANTICO.

### MINIMUM CONSUMPTION

- 1,4 kg/m<sup>2</sup> per mm of thickness.

### INSTRUCTIONS FOR USE

- Product intended for use by professionals.
- Dampen the hardened substrate 24 to 72 hours after application.
- Protect face walls during the entire duration of works and for 3 days after application with a protective screen.
- Do not apply to frozen substrates or if there is a risk of frost.
- Minimum application temperatures: +5°C for light colours and +8°C for strong hues. Above +30°, take special precautions.

**PAREXAL must be used and applied in accordance with the recommendations of its Avis Technique (Technical Appraisal Document)**

### PACKAGING

30 kg bag: 2-ply paper and 1-ply polyethylene.  
1.2 tonne covered disposable pallet.

### SHELF LIFE

12 months from the date of manufacture in its original packaging, unopened, and stored protected from the damp.

### WARRANTY

- Manufacturer's P.L.

### REFERENCE DOCUMENTS

- PAREXAL has a French patent no. 9604132
- Excell "Label vert" (Green Label)
- DTA 7/09-1435
- CSTB CERTIFIED

|   |                 |        |
|---|-----------------|--------|
| P | Paviers         | 42E210 |
| T | Portet          | 46E210 |
| M | Malesherbes     | 05E210 |
| I | Isle sur Sorgue | 34E210 |
| C | Saint Pierre    | 75E210 |



The purpose of this data sheet is to provide information on the properties of the product. The information herein is based on our current knowledge. It is up to the user to check on the suitability of the product for the desired usage and to check whether this sheet has been replaced by a more recent edition.

**TECHNICAL ASSISTANCE:** ParexGroup S.A. provide information and assistance to companies that request it for starting a project in order to clarify specific requirements for the implementation of the product (or process). This assistance cannot be assimilated into either the design stage of the project, or the acceptance of the substrates, or to a check on the implementation rules.

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