PARLUMIERE CLAIR

HYDRAULIC LIME RESTORATION BASE COAT, REPOINTING AND BEDDING MORTAR WHICH CAN BE COLOURED WITH LOCAL SANDS OR NATURAL EARTH

FINISHES

NATURAL WHITE
COLOURED ON SITE
WITH LOCAL SANDS OR
NATURAL EARTH

DESCRIPTION

Hydraulic, lime-based, lightweight, natural white mortar, designed for re-pointing joints in stonework, bricks and facing stones, for use as a building mortar for constructing masonry and as a base coat or key coat but not as a weatherproofing coat.

SUBSTRATES

SUITABLE FOR

- Pisé, rammed earth, adobe, cob, witchet, clinker.
- Old masonry erected with weak mortar.
- Masonry with plaster or lime mortar pre-treated with GOBETIS SPECIAL A.
- Masonry coated with traditional mortar conforming to BS EN 459-1 or BS EN 13914-1.
- One-coat weather-resistant mortar, including PAREX grey weather resistant base-coats.

Suitable for heritage applications

UNSUITABLE FOR

- Pure hydrated lime or plaster coatings, paint, thick acrylic painted coverings - unless coated with PARINTER RENOVATION refer to specific requirements on the data sheet.
- Lightweight hydraulic coats with lower mechanical strength than PARLUMIERE CLAIR.
- Exposed horizontal substrates with a vertical incline above 10°- a backward incline may affect water run off and may have a tendency to hold moisture.

TECHNICAL CHARACTERISTICS

COMPOSITION

- Hydraulic lime HL 3.5 (minimum 30% free lime) conforming to construction lime norms BS EN 459-1.
- Siliceous and calcareous sand. Particle size curve: all through 2.5 mm sieve, 90% through 1.6 mm sieve.
- Light mineral rheological additives.
- Organic additives less than 0.2%.
- Does not contain cement.

PERFORMANCE

Checked by the Patrimoine Heritage Partnership Circle during research programme: Axe III.
PARLUMIERE CLAIR optimises bonding by moulding itself to masonry.

- Apparent density: 1400 kg/m^3
- Modulus of elasticity: 3500 MPa
- Tensile strength: 1.2 MPa
- Water retention: 94%
- Capillarity: 6g/dm^2.√ mn
- Compression strength: 2.5
- Low soluble salt content (sodium + potassium): 0.10%
- Adapted porosity: above 35%
- High steam permeability: above 0.8g/dm^{2}h.mm Hg
- μ = approximately 12

All of the above-mentioned values are average results of standardised laboratory procedures.

SUPPORTING PRODUCTS

- BIO-GRAFFITTI PROTECTION - Waterproofer for exposed areas - pg 129.
- DURCIPIERRE - Stone and render hardener - pg 130.
- FIXOPIERRE - Substrate porosity regulator - pg 131.
- PARINTER RENOVATION - substrate preparation - pg 66.

INSTRUCTIONS

SUBSTRATE PREPARATION

- Substrates must be clean, sound and dust-free.
- Treat capillary rise in walls (for example with 232 PARINJECTION).
- Check soundness, remove all loose material e.g. paint, synthetic coverings, plaster.
- Rake out joints to a depth of 2 to 3 cms.
- All repairs must be carried out a minimum of 7 days before application.
- Spray with water (except earth-based substrates) the day before until saturated, but not so that wall is running with water. Repeat prior to application, ensuring that substrate is wet through.

- Ideal for building up thick coatings
- Lime-rich
- Can be customised by adding local sands
- Environmental benefits

EQUIPMENT REQUIRED

- Manual application: trowel/float
- Mechanical application:

MECHANICAL APPLICATION	SPRAY RENDER MACHINE	SPRAYING POT
▪ Pump pressure	6 – 8 bars	
▪ Air flow		60 m^3 per hour minimum
▪ Air pressure		4 – 6 bars

PRODUCT PREPARATION

- Water dosage: 5.4 – 6.6 litres per 30 kg bag.
- Machine mixing time: 5 minutes.
- Cement mixer mixing time: 5 – 7 minutes.

APPLICATION

SUITABLE FOR

- Machine or manual applications.

For joints between bricks and facing stones.

- Press firmly into joints with a trowel. Brush after drying.

Coating on old masonry — thickness 15 to 30 mm.

To ensure full weatherproofing, the finished coat must have a minimum overall thickness of 15 mm and must be applied in 2 or 3 compact coats.

- 3 coats, manual: apply the first coat or key coat 48 hours before the following 2 coats in successive compact layers.
- 2 coats, mechanical: spray a 10 mm body coat and leave to dry for 3 days then apply a 5 – 12 mm finishing coat.

Very thick coating on old masonry — thickness 50 mm maximum.

- Apply a minimum of 2 compact coats with a minimum 7 days drying time between each coat, according to weather conditions. For coverings between 30 mm and 50 mm, use galvanised or stainless steel reinforcement mesh.

Coating on pisé, adobe, cob, witchet, clinker — thickness 10 to 25 mm maximum.

- Apply 2 compact coats on to a hardened key coat of PARLUMIERE CLAIR with FIXOPIERRE added. Never dampen earth based substrates. For additional information refer to CHAUX DE PAVIER datasheet.
- Loose or mixed substrates should be reinforced with a flexible large mesh.

Coating on masonry covered with plaster mortar — thickness 15 to 30 mm.

- Rake out joints to a depth of 3 cm. Apply GOBETIS SPECIAL A and leave to dry for 24 hours. Then apply 2 compact coats, with a minimum of 3 days' drying time between them, covering the entire substrate evenly.
- Final coat — thickness of 5 to 12 mm.
- Apply a coat of PARLUMIERE CLAIR in 1 or 2 layers (2nd layer whilst 1st is still fresh). Finish as required: Spray Textured, Smooth Spray, Textured Float-Smoothed, Trowel Smoothed ... in natural white.

FINISHES

- Natural white or customised on site by adding 3 litres of 2 to 5 mm sand and/or a maximum of 300 g natural colouring (soil) per bag.
- The finishing layer can be created with a coating from the PATRIMOINE Heritage lime render range (PARLUMIERE FIN, MOYEN or PAREXAL). Associated mineral coverings: CALCIDECO, CALCILANE BADIGEON, CALCILANE ENDUIT, CALCILANE ANTICO.

MINIMUM CONSUMPTION

- 15 kg/m^3 per cm thickness.

PRECAUTIONS

- For professional use only.
- Dampen the substrate prior to application. Dampen the hardened render after application.
- Protect façades throughout the work.
- Do not apply to a frozen substrate. Do not use in freezing conditions.
- Minimum application temperatures: +5°C. Over 30°C, special precautions must be taken.

PACKAGING

30 kg bag - 40 bags per pallet.
2-ply paper and 1-ply polyethylene.
Disposable wrapped pallet of 1200 kg.

STORAGE

1 year from date of manufacture if stored in unopened original packing in dry conditions.

WARRANTY

Manufacturer's liability.

REFERENCE DOCUMENTS

- BS EN 459-1 2001 - Building Lime, definitions, specifications and conformity.
- BS 5628-3 - Code of Practice for the use of Masonry.
- BS EN 13914-1 - Code of Practice for External Rendering.
- BS 8000 - Workmanship on Building Sites.

PRECAUTIONS

Read and follow the guidelines in the Health and Safety datasheet for this product.

TECHNICAL ASSISTANCE

PAREX will, on request, provide information and assistance to companies in relation to the use of a specific product.

Such assistance shall not be associated with structural and design conception, nor assume or accept liability for compliance of substrates, nor compliance to instructions provided.

Technical Information

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Download the technical datasheet and consult the health and safety document on our new site: **www.parex.co.uk**