MORCEM® CAL PORÓGENO

Macroporous dehumidifying natural hydraulic lime mortar for remediating damp walls. Natural composition, highly breathable.

CE
EN 998-1
R CSII

GlobalEPD
A VERIFIED ENVIRONMENTAL DECLARATION

eco

DESCRIPTION

Macroporous dehumidifying natural hydraulic lime mortar for remediating damp walls. Natural composition, highly breathable. Classified R, rendering/plastering mortar, complies with regulation EN 998-1.

TECHNICAL CARACTERISTICS

Lime based NHL 3.5 product with pozzolanic additions, selected aggregates and special additives.

ADVANTAGES AND USES

- Chemical and mechanical compatibility with habitual building rehabilitation substrates.
- Does not contain cement.
- Highly permeable permitting the substrate to "breath".
- High porosity, favours evaporation of water retained in wall and prevents the appearance of salts.
- Very low capillary absorption.
- Reduces the appearance of interior condensation and mould.
- Excellent adherence to substrate, easy to apply and high plasticity.
- Towelled finish.
- Manual or mechanical application.
- ECO line mortar. Reduces CO_2 emissions in production of raw materials and is recyclable.

SUITABLE SUBSTRATES

- Application over brick manufacturing substrates, rubble and ashlar masonry and other porous substrates such as conventional mortars based on hydraulic and mineral binders.
- Substrates must be resistant, stable, sound and clean, free of dust, salt remains, demoulding agents, old paint, organic products, etc.
- Reinforce the mortar with alkaline resistant fibreglass mesh at specific points (joints between different materials, welds, pillars, etc).
- It is necessary to dampen the substrate with abundant water and wait for the film of water to disappear before applying.
- On substrates with little porosity improve the roughness mechanically.
- Remove any plaster or plasterboard elements that are sensitive to the substrate's humidity.

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APPLICATION PROCEDURE

PREPARATION OF THE SUPPORT

Remove the plaster to be sanitised at least 50 centimetres above the humidity mark. Clean the substrate under the coating. Clean the areas affected by efflorescence. Remove any areas that are not very cohesive or resistant. Fill with natural hydraulic lime based mortar, such as MORCEMCAL MURO, avoiding the use of cement. Brush and wash with abundant water until saturated and wait for the surface shine to disappear.

PREPARATION OF THE MORTAR

Add water to the MORCEMCAL PORÓGENO mortar (between 4.75 and 5.25 liters for each 25 kg bag) and mix with a mechanical mixer for at least 5 minutes until a homogeneous and workable consistency is obtained.

APPLICATION

Apply a splattering of bonding agent to the already mixed MORCEMCAL PORÓGENO, in a regular form with a thickness of approximately 0.5 cm, leaving a rough finish. Leave to cure for 24 hours after applying. After 24 hours, wet the bonding layer and fill with MORCEMCAL PORÓGENO mortar. Spread the mixed product over the substrate with the aid of a hand tool, trowel or suitable plastering machine, avoiding excessive pressure to allow the mortar pores to remain open. Apply the mortar in coats no thicker than 20 mm each, in a final minimum thickness of 20 and maximum of 40 mm.

FINISH

Wait for the initial hardening and finish once the appropriate consistency has been obtained. Apply with a wooden trowel to encourage the porosity of the mortar. Cure the applied material for 24 hours to avoid its desiccation. If you wish to apply a decorative finish, use only highly breathable products such as Morcemsec Estuco, Pumacril Revestimiento Silicato or Morcemcal Acabado, following the respective instructions for each product.

RECOMMENDATIONS

- Do not apply under 5ºC nor above 30ºC.
- Do not apply when there is a risk of frost, rain, strong wind or direct sunlight, or with the substrate heated.
- Do not apply on plastered or painted surfaces.
- For use on substrates in a bad condition or for larger thicknesses it is necessary to reinforce the mortar with meshing (consult the technical service).
- It is recommendable to gently spray the product with water the day after applying.
- Clean the wall to remove any dust, dirt, friable material or efflorescence.
- Wet the substrate abundantly before applying the product.
- The overlaying of wet mortar coats ensures good bonding and facilitates carbonation.
- Adjust the mixing water, avoiding excesses, until the desired consistency is reached by mixing. Do not add plaster mortar, cement or any other substances that might affect the properties of the material.
- Do not finish MORCEMCAL PORÓGENO with unbreathable materials (plastic paints, enamels, stone, ceramic...).
- For indoor applications MORCEMCAL PORÓGENO increases the relative humidity of the atmosphere. Avoid applying in places without ventilation.
- The height of application should be 50 cm above the damp stain.
- According to stipulations in the Technical Building Code (CTE) document DB-HS 1: Protection against humidity, when the façade is constructed from porous covering, to protect it you must have a skirting board or other material with a suction coefficient lower than 3% in order to protect it from rising damp and splashes. Minimum 1 cm from the floor.

PACKAGING AND STORAGE

25 kg plastic-lined paper bags.
Shelf life: 1 year in sealed original packaging, sheltered from weather conditions and humidity.

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TECHNICAL DATA

(Statistical data obtained under standard conditions)

Appearance	Clear beige powder
Occluded air UNE-EN 1015-7	> 20%
Traction resistance UNE-EN 1015-12 Failure type	≥0,1 MPa B
Diffusion coefficient of water vapour	μ≤6
Capillarity 24 hours UNE-EN 1015-18	≥0.3 Kg/m²
Thermal conductivity coefficient UNE-EN 1745	0,45 W/mK
Resistance to sulphates (90 d. solución 50 gr/l SO3Mg)	Without loss
Classification complies with UNE -EN 998-1	R CSII
Performance	12 kg/m² per cm of thickness
Mixing water	20%±1 by weight

ENVIRONMENTAL PRODUCT DECLARATION (EPD)

Cement based mortar prepared with aggregates that are supplied close to the production center, which reduces the greenhouse gas emissions that would otherwise arise from their transport. Manufactured in production centers with an Environmental management certified system following ISO 14001 regulation, offering a firm promise of sustainability and respect for the environment.
Cement based mortar with type III ecological label (the most strict) Environmental Product Declaration verified externally by AENOR.

LEGAL DISCLAIMER

The instructions for use are given according to our tests and knowledge and do not imply any commitment by GRUPO PUMA nor free the consumer from the examination and verification of the products for their correct use. Claims must be accompanied by the original packaging to allow a proper traceability.

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