

TECHNICAL DATA SHEET

Ecomaxx Dry LimeMortar Base

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Ecomaxx Dry LimeMortar Base is a natural lime-based mortar. It is formulated for both exterior and interior applications. Ideal for rendering, grouting, filling voids and cracks in rehabilitation work and restoration of Heritage Buildings and Structures. It is used as a first regulation coat, as it contains coarse aggregates.

PRODUCT DESCRIPTION

Features:

Highly breathable.
Ultra-low VOCs emissions
Free of formaldehyde emissions.
Excellent adhesion.
Tough and long-lasting.
Good workability.
Absorbs CO2.
Suitable for interiors and exteriors.

Physical and Technical Properties

Nature	- Hydrated lime, polymeric additives and inert aggregates. Contain no acrylic or latex.
Colour	- Off-white
Working thickness	- 5 to 15 mm per layer
Yield on level substrate	- Approximately 22 kg/m2 for 15 mm thickness (Depends on type and condition of substrate)
Pot life	- 4 to 5 hours
Setting time	- 3 to 4 hours (Depends on condition of substrate and weather)
Curing time	- 48 to 72 hours (Depends on condition of substrate and weather)
Adhesive Strength	- ≥ 0.5 N/mm2

Format:

In sack of 20 kg. It is supplied as a ready-to-use blend of dry powder requiring only addition of clean water.

Storage:

Keep in original pack, closed and in a cool and dry place. Keep from freezing and avoid direct sun exposure. Unopened, it may be conserved for at least 12 months from the date of manufacture.

APPLICATION INSTRUCTION

Application surfaces:

It can be applied on all types of common surfaces in construction: brick, concrete, masonry, etc.

Conditions of the substrates:

The substrate must be dry, firm, well adhered, free of any impurity and must have a grip to ensure the adhesion of the product.

Preparation of the substrates:

If the substrate presents algae, mould, fungi and / or other impurities, it is recommended to do a thorough cleaning, eliminating in its entirety and with specific products for this purpose.

If the substrate has poor adhesion, brush and apply *Graphenstone Minerseal Premium* diluted 3:1 with water.

If the substrate has salt deposits, brush and apply *Graphenstone Neutralysal Premium*.

On substrates without porosity, apply *Graphenstone Contak Premium*.

On substrates with some porosities or very absorbent, apply *Graphenstone Naturglue Premium* leaving it scratched or brushed and dry 24 hours.

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Product preparation:

Add approximately 8 to 9 kg of clean water until the desired consistency is attained. Mix with mechanical stirrer, until it is totally homogenised with adequate consistency. Let it rest 20-30 minutes before applying.

Application method:

Apply manually or by projecting, evenly. Level the material to regulate the thickness. Do not smooth the surface to ensure the grip of the finishing mortar. If the substrate has cavities, natural stones, etc., the mortar must be launched prior on the substrate to ensure adhesion and avoid future superficial cracks.

If there are supports of different nature, meshes must be used.

Drying:

In conditions of 25 °C and 60% relative humidity: 24-48 hours between layers of mortar, 24 hours for its protection or at least 4 days for *Graphenstone®* painting. The carbonation process mainly occurs during the first 30 days.

Tools:

Preparation: mechanical stirrer, bucket.

Application: masonry brush, trowel, double-mix projecting machine, level.

Finishing: notched trowel or similar, sponge trowel.

Tool cleaning:

Clean tools after use with warm water.

Notes:

Do not drench the substrate before application, only lightly moisten if very dry.

Careful not to add too much water into the mix.

Do not water for hardening, it hardens by absorbing atmospheric CO₂.

Do not apply to surfaces in constant contact with water.

It is recommended to protect the treated surface from rain for at least 4 days.

If not being painted it is recommended to consolidate and protect with *Graphenstone Minerseal Premium*.

In very humid or highly contaminated areas, *Graphenstone Hydrox Seal Premium* is recommended to minimize water absorption.

The parts that are not going to be treated must be protected (glass, wood, etc.).

Do not mix with other products or specific properties may change.

Complementary products:

Graphenstone® products are recommended for the preparation of the substrate and protection of the finish. Refer to the relevant Technical Data Sheets.

ADDITIONAL INFORMATION

Usage warnings:

None in particular for normal use and people who do not have special pathologies. Protect skin and eyes especially. Apply with good ventilation, do not inhale product. Keep out of reach of children.

Waste management:

Help protect the environment, do not throw waste through the drain and use the nearest recycling centre.

Safety information:

For information regarding safety, physical, ecological and toxicological information see the latest version of the product's Material Safety Data Sheet.

Technical support:

For further information, please contact with local distributor or manufacture:

info@graphenstonefareast.com