

MortarBase Premium

Version: oct-17

MortarBase Premium is a natural mortar with graphene technology. Ideal for rendering, grouts in rehabilitation work and restoration of Listed Properties. It is used as a first regulation coat, as it contains coarse aggregates.

PRODUCT DESCRIPTION

Features:

- Highly breathable. Avoids condensation.
- Excellent flexibility and adhesion.
- Tough and long-lasting.
- Low water absorption.
- Good workability.
- Absorbs CO₂.
- Contains high quality lime and graphene fibres.
- Suitable for interiors and exteriors.
- Free of VOCs and formaldehyde emissions.

Technical properties:

Apparent density		
· Fresh	EN 1015-6	1970 ± 100 kg/m ³
· Hardened	EN 1015-10	1690 ± 100 kg/m ³
Compression strength	EN 1015-11	CS II
Adhesion	EN 1015-12	≥ 0.5 N/mm ²
Capillary water absorption	EN 1015-18	W 2
Coefficient of water vapor permeability	EN 1015-19	≤ 15 μ
Reaction to fire	EN 13501-1	A1
Thermal conductivity (λ _{10, dry})	EN 1745	0.72 W/m·K (Tabulated value)
Natural Color	-	Grayish-White

Yield:

20 kg/m² for 12 mm on a level substrate. It depends on the type and condition of the substrate. The exact consumption must be determined by the means of a sampling of the work.

Format:

The aggregates are presented in a 13.5 kg sack and *Kalgraphin Premium* in a pot of 4.5 kg

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, 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, mold, 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 (sandy, dusty, etc), brush and consolidate with *Minerseal Premium* diluted 3:1 with water.

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

If the substrate has little absorption and/or grip (smooth substrates, plasticization, ceramics, wood, etc.), apply *Contak Premium*, after 24 hours apply *Naturglue Premium* leaving it scratched or brushed and dry for 24 hours.

If the substrate presents pathology such as structural cracks, moisture by capillarity, condensation or filtration, etc.; then it is necessary to resolve the structural problems first.

Product preparation:

Pour off the water from the *Kalgraphin Premium* pack (do not throw). Mix the contents of the sack (aggregates) with the remaining contents of the *Kalgraphin Premium* pack. Depending on the desired consistency, re-add water never more than 1 l. Mix with mechanical mixer, until its total homogenization and adequate consistency.

Application method:

Apply manually or by projecting, evenly. Set a ruler to the material applied to regulate the thickness and at the start of drying, even out the material.

In a two-coats system, leave the pores open: slightly pass a toothed trowel leaving a groove of 2-3 mm or the edge of a ruler or a sideways trowel (45° inclination) to create a coarser surface.

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.

Thickness of the work: 5-15 mm per day.

Drying:

In conditions of 25 °C and 60% relative humidity: 24-48 hours between layers and for finishing mortar.

The physical and chemical hardening (carbonation process) mainly occurs during the first 30 days.

Environmental conditions:

The work temperature (environment and support) must be greater than +5 °C and less than +30 °C. Do not apply in direct sunlight, strong winds, rain, freezing or on supports heated by the sun.

Tools:

Trowel, double-mix projecting machine, finishing 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.

In case of rain, let the substrate dry before applying.

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 the surface with *Minerseal Premium*.

If it is being exposed in very humid areas (tropical regions, bathrooms, covered swimming pools, etc.) or highly contaminated areas, *Hydroxeal 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:

It is recommended to use the *Graphenstone®* product line for complementary actions, according to the required application, repair and/or finish. Please, refer to the relevant Technical Data Sheets.

DECLARATIONS

The manufacturer declares that the composition of the product, it does not contain hazardous substances and it is free of VOC emissions. It complies with the criteria of CE Marking according to UNE-EN 998-1.

For more information visit our website: <http://graphenstone.com/Graphenstone-Global-Certificados.html>

ADDITIONAL INFORMATION

Usage warnings:

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

Waste management:

According to local legal provisions. The packages are made of recycled polypropylene. Help protect the environment, do not throw waste through the drain and use the nearest recycling centre.

Responsible gesture:

Minimize the mortar waste by estimating the amount you will need. Recover the unused mortar to give it a new use before 2 months, keep it under the Storage section.

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:

technicalsupport@graphenstone.com

The information provided is given in good faith, based on current knowledge and IEdiSA's experience with the products when they are properly stored, handled and applied in normal situations and in accordance with the recommendations of IEdiSA. The Technical Specifications sheet is useful for information and consulting, but is not legally binding. In particular, it does not exempt the user from testing and verifying the suitability of the product for the desired application and purpose. IEdiSA reserves the right to modifications that improve the product or its application. This version invalidates previous ones.