



MortarSuper Premium

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MortarSuper Premium is a superfine natural mortar with graphene. It is applied as a final finishing coat for plastering and high-decoration finishes such as ironing, texturised, combed, etc. It is similar to micro cement.

PRODUCT DESCRIPTION

Where to apply:

Ideal for plastering and high-end decoration finishing in new buildings and for rehabilitation and restoration of Listed Properties that require mortars identical to the original.

Applied on substrates that have mechanical grip and are absorbent, such as rendering and bonding mortars.

Features:

Excellent flexibility and adhesion.
 Low water absorption.
 Good workability.
 Absorbs CO₂.
 Contains high quality lime and graphene.
 Antibacterial/anti-mould effect.
 Insect repellent.
 Breathable. Avoids condensation.
 Tough and long-lasting.
 Suitable for interiors and exteriors.
 Free of VOCs and formaldehyde emissions.

Yield:

Coverage depends on the type and condition of the support. As an estimate, for a completely even support, we consider 2 kg/m² (thickness of 2-3 mm). The exact consumption must be determined by means of a sample of the job.

Components:

Rich aerated lime*, selected aggregates, graphene fibre, natural additives. Complies with the requirements of the standard DIN 18363 (≤ 5% of organic content).

**Derived from CL90-quality limestone and artisanal production recognised by UNESCO as Intangible Cultural Heritage of Humanity.*

Technical properties:

Apparent density:

· Dry	EN 1015-10	1500 kg/m ³
· Fresh	EN 1015-6	2125 kg/m ³
· Hardened	EN 1015-10	1985 kg/m ³

Compression strength	EN 998-1	CS II 2.6 N/mm ²
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Adhesion	EN 1015-12	≥ 0.1 N/mm ²
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Capillary water absorption	EN 998-1	W 2 c ≤ 0.20 kg/m ² ·min ^{0.5}
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Coefficient of water vapor permeability	EN 1015-19	≤ 15 μ
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Reaction to fire	EN 13501-1	A1
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Thermal conductivity (λ10, dry)	EN 1745	0.93 W/m·K (Tabulado value)
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Colours:

Available in natural (white) and colours, according to the NCS 980 colour chart. Please note that due to the mineral nature of the product, the final colour tone may vary slightly. A colour exactly matching that chosen is not always obtained.

Format:

The aggregates are presented in a 11.25 kg sack. Separately, *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.

APPLICATION INSTRUCTIONS

Conditions of the substrate:

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 substrate:

If the substrate contains impurities, it is recommended to clean it with pressurised water. Should there be colonies of mould, lichens, algae and bacteria, brush with sodium hypochlorite (bleach) and wait at least 48 hours before rendering.

If the substrate is 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 support presents surface cracks of 1-3 mm, apply *Füllmasse Premium* with a fiberglass mesh.

If the substrate contains pathologies such as moisture due to capillarity, condensation, leak, biodeterioration or movements of the substrate, etc., then it is necessary to resolve the structural problems first.

If the substrate has little absorption, grip (smooth substrates, plasticization, ceramics, wood, etc.), apply *Contak Premium*.

Product preparation:

Pour off the water from the *Kalgraphin Premium* pack. Mix the contents of the sack (aggregates) with the remaining contents of the *Kalgraphin Premium* pack. If necessary re-add this water, never more than 0.5 l. Mix with an electrical beater or mechanically until it is completely even.

Application method:

Apply a first level coat and then apply a second one evenly until achieving the desired thickness, never more than 5 mm per day.

At the beginning of drying, apply the finish according to the desired result: ironing, texturised, combed, etc.

If the supports are different, use mesh.

The working thickness is 1-5 mm.

Drying:

In conditions of 25 °C and 60% relative humidity, allow 24-48 hours between coats and at least 4 days for the desired finished.

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, 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 wet new mortar in order to harden it; it hardens by absorbing atmospheric CO₂.

The indicated times are for environmental conditions of 25 °C and 60% relative humidity.

Do not apply to surfaces in constant contact with water.

In case of rain, let the substrate dry for at least 48 hours 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 not being painted in very humid areas (tropical regions, bathrooms, covered swimming pools, etc.) or highly contaminated areas, *Hydroxeal Premium* is recommended to minimise 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.

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

Technical substrate:

For further information, please contact your local distributor or manufacture: technicalsupport@graphenstone.com.

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.

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.

Safety information:

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 Specific-

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