



Two-component air lime paste adhesive mortar with Graphenstone technology. Highly breathable, highly flexible. Recommended as a previous coat to ensure adhesion and workability of finishing mortars, and for bonding ceramic tiles. Can also be used as a repair mortar for the rehabilitation and restoration of historic buildings.



Features

Highly breathable. Prevents condensation.
Excellent flexibility and adhesion.
Tough and long-lasting.
Low water absorption.
Outstanding workability.
Absorbs CO₂.
Suitable for interiors and exteriors.
Environmental Product Declaration.
Cradle to Cradle Certified™ GOLD.

Technical properties

Apparent density

Fresh EN 1015-10	1600 ± 100 kg/m ³
Hardened EN 1015-6	1400 ± 100 kg/m ³

Compressive strength EN 1015-11	> 2.5 N/mm ²
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Flexion strenght EN 1015-11	> 3 N/mm ²
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Adhesion EN 1348	> 0.5 N/mm ²
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Fire performance	A1
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Composition	Aerial lime in paste
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Natural Colour	Sand/greyish
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VOC Content	< 1 g/l
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Pack size

13 kg bag of aggregates + 4.5 kg container of Kalgraphin (lime putty)

Yield/Coverage

3 kg/m² (2-3 mm) as a previous coat for bonding of finishing mortar.

5 kg/m² (thickness of 5 mm) on level substrate

Depends on the type and state of the substrate, tools and application. The exact consumption should be determined by sampling on site.

Storage

Store in original container. Keep tightly sealed in cool, dry place. Do not store in extremes of temperature, avoid direct exposure to sunlight and protect from frost. Unopened, storage stability is 12 months from date of manufacture. Product may thicken without losing its efficacy. Shake well before use.

Substrate preparation

All common building surfaces: brick, concrete, plaster, prefabricated panels, plasterboard, tiles and masonry.

The substrate must be dry, firm, well adhered, even and free of any impurities that could hinder the perfect bonding of the product.

- Any organic growth and/or other impurities should be removed by thorough cleaning using specific products for this purpose.



- If the substrate is very deconsolidated, brush and apply *Minerseal* diluted 3:1 with water.
- If the substrate has salt deposits, brush and apply *Neutralysal*.
- On substrates without porosity, first apply *Contak*.

Product preparation

Pour off the surface water from the Kalgraphin container (do not throw away). Mix the contents of the bag (aggregates) with the remaining contents of the Kalgraphin container (lime putty). Mechanically mix until homogeneous. Depending on the desired consistency, add the removed water, never more than 0,5 l. It is advisable to let it rest for 15-20 minutes before application.

Application method

Apply evenly by hand. Finish according to the required function: with notched trowel for bonding tiles; brushed/sanded as a pre-coat for finishing mortar; trowelled as a finishing mortar.

Working thickness: 1-5 mm with trowel and up to 10 mm with notched trowel, per day.

For facades or in case of different substrates, reinforcing mesh should be used.

Drying

At 25 °C (77 °F) and 60% relative humidity: 24 hours between layers of mortar. At least 7 days of drying after adhesion of tiles, flagstone or ETIS.

Total curing occurs after 30 days, presenting good hardness and resistance. It is advisable not to clean and/or scrub during this period.

Ambient conditions

The working temperature (ambient and substrate) must be between +5 °C and +32 °C. Do not apply under direct sunlight or on surfaces heated by the sun.

Tools

- Preparation: mechanical stirrer, bucket.
- Application: trowel, notched trowel.
- Finishing: brush, finishing trowel.

Clean tools after use with warm water.

Recommendations

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

Be careful not to add too much water into the mix. Do not water for hardening, the product hardens by absorbing CO₂ in the atmosphere.

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

If left exposed, it is recommended to protect the surface with *Hydroxeal*, which also minimises water absorption.

Parts that are not going to be treated should be protected (glassware or carpentry).

Do not mix with other brands to maintain product efficacy.

Complementary products

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

Usage warnings

None, particularly in situations where normal product application is expected and by people without any specific medical conditions. Alkaline product, protect skin and eyes especially. Do not inhale the product. Keep out of reach of children.



Waste management

According to local legal regulations. The containers are made of polypropylene. Please contribute to the protection of the environment, do not throw waste down the drain and use the nearest recycling point.

Sustainability gesture

Minimise product waste by carefully estimating the amount you will need. Store any unused product for future use according to the "Storage" guidelines.

Safety information

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

Technical support

For further information, please contact your local distributor or manufacturer:

technicalsupport@graphenstone.com

The information provided is given in good faith, based on IEdISA's current knowledge and experience of the product, when correctly stored, handled and applied, in normal situations and according to IEdISA's recommendations. The Technical Data Sheet serves for information and advice, but is not legally binding. In particular, it does not exempt the user from test and check the suitability of the product for the desired application and purpose. IEdISA reserves the right to make modifications that improve the product or its application. This edition invalidates previous editions.

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