

## Kalgraphin Premium

Version: jan-18

*Kalgraphin Premium* is a component of lime paste with graphene technology for preparation of mortars for buildings, rehabilitation and restoration of historic buildings.

### PRODUCT DESCRIPTION

#### Features:

- Component for preparation of mortar.
- Excellent flexibility and adhesion.
- Low water absorption.
- Good workability.
- Absorbs CO<sub>2</sub>.
- Contains high quality lime and graphene fibres.
- Breathable. Avoids condensation.
- Tough and long-lasting.
- Suitable for interiors and exteriors.
- Free of VOCs and formaldehyde emissions.

#### Technical properties:

Specific weight	1.25 ± 0.05 g/cm <sup>3</sup>
pH	12.5 ± 1
Viscosity	< 50 U.K.
Solid content	34 ± 5 %
Fire performance	A1
Nature	Aerated lime
Appearance	White dense liquid
Finish	Matte
VOC content	< 1 g/l

#### Format:

Available in pots 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. The product may thicken without losing its properties; shake well before use

### APPLICATINO INSTRUCTIONS

#### Application surfaces:

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

#### Conditions of the substrate:

The substrate must be dry, firm, well-adhered and free from any impurities that may hinder the product from setting fully.

#### Preparation of the substrate:

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 is not well adhered, remove any areas that do not adhere.

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 pot and mix with aggregate according to the mortar that want to obtain. If necessary, re-add water. Mix with electrical beater or mechanically until it is completely eve.

#### Application method/Drying/Tools:

Please refer to the relevant Technical Data Sheets according to the type of mortar to be prepared: *MortarBase Premium*, *MortarFine Premium*, *MortarSuper Premium* or *Naturglue Premium*.

#### Environmental conditions:

The work temperature (environment and support) must be between +5 °C and +32 °C. Do not apply in direct sunlight or on supports heated by the sun.

#### 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 CO<sub>2</sub>.

The mineral substrate must be at least 28 days old.

The substrates to be painted must be resistant to high alkalinity.

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.

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

Should there be strict aesthetic requirements, it is recommended to perform prior tests.

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.

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

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

## 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 pots are made of polypropylene. Help protect the environment, do not throw waste through the drain and use the nearest recycling centre.

### Responsible gesture:

Minimize the product waste by estimating the amount you will need. Recover the unused mortar to give it a new use, 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 substrate:

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

[technicalsupport@graphenstone.com](mailto:technicalsupport@graphenstone.com)