



# MortarBase Premium



## Natural Mortar for Rendering and Restoration

MortarBase Premium is a lime stone mortar with graphene technology. Ideal for rendering, grout in rehabilitation work, and restoration of listed properties. It is used as a first regulation coat, as it contains coarse aggregates. Suitable for use in the first layer of surface coating or the surface coating requiring a thickness of 5-15 millimeters.

### Product Features

- For rendering in rehabilitation work and restoration.
- Bi-component. It is mixed with Kalgraphin Premium. Can be mixed to have the desired color. \*
- No smell of volatile substances (Zero VOCs) and without carcinogens (Non-Formaldehyde). Safe for health.
- Unique formula based on high-quality lime stone. It eliminates CO<sub>2</sub> improving air quality and eco-friendliness.
- Lime stone helps highly breathable on surface. Avoids condensation.
- Maintain the original material. Suitable for rehabilitation work and restoration.
- Excellent flexibility and adhesion with graphene technology. Able to conceal hair cracks.
- Low water absorption.
- Suitable for interiors and exteriors.
- After mixing keep the remaining mortar by water casting.
- It is used as a first regulation coat, as it contains coarse aggregates.

**Color Mixing** : The shading will be Pastel \*For Additional inquiries please contact to technical advisor or the company.

**Certification** : Cradle to Cradle Certified GOLD, Sensitive Choice, French VOC A+



## **Application Instruction**

### **Application Area**

- The product can be applied to general construction materials such as brick, concrete, etc.

### **Coverage**

- Approximate 11 kg/ m<sup>2</sup> for 5 mm. It depends on the type and condition of the substrate. The actual coverage rate will be obtained from the average value of the actual work performed.

### **Tools**

- Trowel, Mechanical agitator, double-mix projecting machine, notched trowel or similar, sponge trowel.

### **Substrate Preparation**

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

### **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.

### **Product Preparation**

- Pour off the water from Kalgraphin Premium pack and keep it to remix the content. Use the remaining contents of the Kalgraphin Premium.
- Mix the contents of MotarBase Premium with the remaining contents of the Kalgraphin Premium depending on the desired consistency.
- Re-add the water from the Kalgraphin Premium pack never more than 1 liter.
- Mix with a mechanical mixer until its total homogenization and adequate consistency. Leave for 20-30 minutes.
- Re-stir 1 minute more before applying.

### **Application Method**

- Apply the coating product on the surface, ensuring that the thickness does not exceed 15 millimeters per day.
- It is not necessary to smooth the plastered surface. For each layer, except the final layer, to assist in creating adhesion for the topmost layer.
- In the case of a textured or naturally rocky surface, ensure that the surface allows for good adhesion.
- Scrape the surface in areas prone to peeling before applying the coating product to reduce the risk of cracking or peeling.
- When working on joints between two different materials, reinforce with mesh to enhance adhesion.

### **Drying**

- The drying time for the surface before applying the next coat is approximately 2-3 hours at a thickness of 5 millimeters per layer. In conditions of 30°C and 60% relative humidity: 24-48 hours between layers of mortar. The carbonation process mainly occurs during the first 30 days.

### **Tool Cleaning**

- Clean tools after use with clear water.



### Technical Data

Test Method	Standard	Evaluation
Density		
- Fresh	EN 1015-6	1970 ± 100 kg/m <sup>3</sup>
- Hardened	EN 1015-10	1690 ± 100 kg/m <sup>3</sup>
Compressive strength	EN 1015-11	CS II
Adhesion	EN 1015-12	≥ 0.5 N/mm <sup>2</sup>
Capillary water absorption	EN 1015-18	W2
Coefficient of water vapor permeability	EN 1015-19	≤ 15 μ
Fire resistance	EN 13501-1	A1
Thermal conductivity	EN 1745	0.72 W/m <sup>2</sup> K
Composition		Aerial lime in paste
Natural Color		Greyish white
Yield on level substrate*		11 kg. /m <sup>2</sup> for 5 mm.
Recommend Thickness		5 - 15 mm.
Maximum application thickness per day		15 mm./day

\* It depends on the type and condition of the substrate.

The information in this data sheet is given to the best of our knowledge based on laboratory testing and practical experience. However, as the product is often used under conditions beyond our control, we cannot guarantee anything only the quality of the product itself. We reserve the right to change the given data without notice.

### Additional Information

- If the surface is too dry, lightly sprinkle water to moisten it, but ensure it is not overly wet before application.
- Do not add excessive water to the mixture.
- The product hardens by absorbing carbon dioxide from the atmosphere. Therefore, do not apply layers thicker than the recommended daily limit, as the inner layers may not dry and harden properly.
- Do not use the product on wet surfaces or surfaces with constant water seepage, as this may prevent the product from drying and hardening, or cause white stains.
- In case of rain, wait for the surface to dry before application.
- Ensure the surface is protected from rain for at least 4 days after application.



### Caution

- It is recommended to wear safety equipment, such as gloves, dust masks, and safety glasses.
- In the event of eye contact, rinse your eyes with clean water several times immediately and seek medical advice promptly.
- Keep out of reach of children.

### Storage

- Store the product in its original packaging.
- Keep the product in a dry place.
- Avoid storage locations exposed to direct sunlight or high temperatures.
- If unopened, the product can be stored for at least 36 months from the date of manufacture.
- After mixing keep the remaining mortar by water casting 1 inch high and seal in a bucket to avoid hardening. (check it every 3 months) and before use pour out the water if it is too thick, add water until the mixture is workable.

### Packing

- Pack size : 1 set composed of 1 bag of MortarBase Premium and 2 buckets of Kalgraphin Premium.  
Plaster 18.9 kilograms/bag.  
Kalgraphin Premium 4.5 kilograms/bucket.

The information provided is given in good faith, based on current knowledge and Jorakay Corporation's experience with the products when they are properly stored, handled, and applied in normal situations and in accordance with the recommendations of Jorakay Corporation. This 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. Jorakay Corporation reserves the right to modifications that improve the product or its application. This version invalidates previous ones.