

Cement-free and colourable fine lime mortar, with a neutral hydraulic lime base and mineral

Application

- Lime mortar can be used to add an authentic appearance and control moisture in internal and/or external walls
- A final mineral layer with the typical properties of a lime-based material is obtained after application

Properties

- Composed of natural hydraulic lime and mineral fillers.
- Cement-free.
- Does not place any pressure on old construction materials.
- Allows the walls to breathe freely.

Directions

Preparation

- The substrate should be mineral-based, homogeneous, sound (e.g. non-brittle), clean, free of suspect or loose materials and sufficiently porous.
- The substrate should not pulverize. If necessary, it can be hardened with Artisil SVS 75 (in this case, wait at least 14 days before applying the lime mortar).
- Any problems caused by damp (rising damp or water seepage) must first be resolved.
- The substrate must not contain a large quantity of salts.
- The substrate must not be water repellent (must absorb water).
- Loose sealants must be removed and correctly repointed where needed.
- In order to clean the substrate, we recommend that you use Rewanet, allowing it to act for at least 24 hours before cleaning with high-pressure water using a rotary head.
- We recommend that you use Decamur or Decastrip Max to strip painted surfaces.
- Always pre-moisten the substrate sufficiently, preferably the evening before by using a hose pipe, until the substrate is fully saturated with water. In all cases, the substrate must be dry to the touch, before you begin to apply the lime mortar.

Remark: Under all circumstances, we advise that you test a small area of the prepared substrate with **Kalei Liscio 2**. This will enable you to judge its final appearance and check adhesion. It will also act as a guideline and help you judge how much of the product will be required, as this depends greatly on the condition of the substrate. If inspection of the test area indicates that the mix does not adhere sufficiently well, despite having made the appropriate preparations, we recommend that you increase the mixing water from 0,50 litre to 1 litre (maximum) Cemgrip S per 25 kg **Kalei Liscio 2** and test this new sample.

Work method

- To prepare **Kalei Liscio 2**:
 - To prepare **Kalei Liscio 2** without adding any colour pigments:
 - Add the mixing water to the **Kalei Liscio 2** powder.
 - Mix for 4 to 5 minutes with a high-speed electric stirrer until a homogeneous, lump-free mass is obtained.
 - To prepare **Kalei Liscio 2** with colour pigments:
 - It is sufficient to begin by mixing without lumps the required amount of our colour pigments in the mixing water.
 - Next, add to the **Kalei Liscio 2** powder and mix for 4 to 5 minutes until a homogeneous, smooth and lump-free mass is obtained.
 - When using 2 or 3 pots of colour pigment, add Cemgrip S to the mixing water.
 - Mixing ratio:
 - Without colour pigment:
25 kg powder + 7,5 à 8 ltr water
 - With 1 package colour pigments:
25 kg powder + 7,5 à 8 ltr water
 - With 2 packages colour pigments:
25 kg powder + max. 7,5 ltr water + 0,5 ltr Cemgrip S
 - With 3 packages colour pigments:
25 kg powder + 7 ltr water + 1 ltr Cemgrip S
 - In order to achieve the same effect across the entire surface, we recommend that you use the same proportion of water and powder in each mix. Always ensure that slightly more water is added to the final coat than to the first layer. In fact, the first layer acts as a filler, while the second coat serves to create a uniform finish.
- To apply **Kalei Liscio 2**:
 - **Kalei Liscio 2** should be applied to this pre-moistened substrate.
 - We always recommend that you apply two coats. Fill all cavities when applying the first coat.
 - Wait at least 24 hours between applying the two coats. Always make sure that the previous mortar layer is sufficiently pre-wetted.
 - Apply with:
 - to apply 1-2mm coats by hand using a lime wash brush or
 - spread with a stainless plastering trowel, then finish with a whitewash brush
 - apply mechanically, then finish with a whitewash brush. We are happy to help you choose the right equipment.
 - It is vital that you regularly mix the product in order to prevent it from separating.
 - Under no circumstances is it advisable to add more water if the lime mortar becomes drier and harder during application! This means that the product is beginning to set and can no longer be applied.
 - Under no circumstances should you exceed the maximum quantity of mixing water, as this may cause white efflorescence.
 - The application of excessively thick mortar may cause small cracks to appear, which can be sealed by further smoothing.

- End result and finishing:
 - The end result is a typical matt finish, with colour shades characteristic of lime-based systems.
 - If a uniform colour finish is preferred, two final coats of Tensiocoat from Rewah's Paint range can be applied. This is a breathable, vapour-permeable, matt finish with water and dirt repellent properties. Furthermore, Tensiocoat offers an almost unlimited choice of colours. This complete system of **Kalei Liscio 2** with a Tensiocoat finish is vapour-permeable. When choosing this system, the following considerations should be taken into account:
 - One layer of Kalei Liscio 2 may suffice, depending on the desired effect. In this case, we recommend adding 0,5l Cemgrip S to the mixing water of the lime mortar.
 - Wait approximately 1 week between applying the lime mortar and the paint.
 - The lime mortar must be dry before painting.
 - Proper hydration/curing of the lime mortar is important, particularly when applying paint over it. Be sure to follow the tips and implementation guidelines as described below.
 - **Kalei Liscio 2** can also be made waterproof with the hydrophobic impregnation treatment Redisil S. Wait approximately 1 week between the application of the lime mortar and the hydrophobic impregnation.

Advice and processing guidelines for lime-based mortars

- Only be applied at ambient and substrate temperatures of 5°C - 25°C.
- It is not advisable to apply the product in full sunlight, wet weather or if it is likely to rain, freeze or if there is a possibility of night frost or fog.
- Prevent the mortar coating from drying too quickly, due to direct sunlight or strong wind, by covering the treated surfaces with a tarpaulin for at least 48 hours. This is vital for dark colours.
- In order to prevent the appearance of joins, the product should be applied wet on wet.
- When working on large surfaces, it is recommended that you work as part of a team.
- It is best to apply horizontal strokes and leave a horizontal join or use irregular strokes.
- In case of a necessary interruption, stop in the bed joint or work in irregular shapes.
- **Kalei Liscio 2** and Kalei Liscio Colour Pigments are natural products. Slight variations in colour may occur depending on the coat or place of use, which is normal for this type of natural product.
- With dark colours, it is particularly important to prevent the mortar from subsequently becoming damp. It should not be smoothed with a damp brush or further exposed to water in any way.
- The use of dark colours also increases the risk of unattractive white marks appearing, due to the migration of lime or salts. For this reason, before being coated with mortar, all buildings must also be made fully wind-proof, by means of all the necessary coverings and roofing materials, rainwater drainage, elastic seals, joints, roof edge profiles, etc. |
- In general, it is better to avoid leaving lime mortars unprotected at ground level, as this can cause the surface to become more rapidly soiled. It is also recommended that you use a plinth made from natural stone/cement or paint a mortar plinth with a coat of Tensiocoat.

Technical characteristics

Specific gravity	+/- 1,3
Type of ingredients	natural hydraulic lime and mineral aggregates
Solvent	water
Grain size	0,01 to 0,63
Pot-life at 20°C	+/- 2 hours
Drying time	24 up to 48 hours, depending on climatic conditions
Setting time	sets fully after 2 up to 3 months as a result of carbonatation
Cleaning	after use, equipment can be cleaned immediately using water or soapy water or using water added with vinegar

Colors

The standard **Kalei Liscio 2** colour is Naturel (old white) and can be coloured in the mass using the Kalei Liscio Colour Pigments. A colour chart of 72 colours is available.

Reports

- KIK – D.2010.10719: Water vapour permeability

Quantity to use

In practice, the amount required depends on the condition of the substrate and can vary greatly.

Theoretically: in case of 2 layers: total quantity to use is +/- 2,5 kg/m²
 in case of 1 layer (for example with 1 layer of Tensiocoat): +/- 1,5 kg/m²

Packaging

Kalei Liscio 2	25 kg
Kale Liscio Colour Pigments	400 gr

Safety information – Transport – Handling and storage - Waste

Consult the most recent and product-related safety information sheet from Rewah in compliance with the (EU) 453/2010 annex II/A guidelines. The information on the abovementioned safety information sheet has been drawn up with the greatest care and is based on the knowledge available at the date of issue. We accept no liability for damage or hindrance of any kind which could be caused by the use of the product concerned.

Transport and storage

Store the product and its packaging dry and protect against moisture.

Storage life

1 year after manufacturing in the original closed packaging.

Considerations

The data included in this sheet, the application advices and other recommendations are based on extensive research and experience. They are however not binding also in relation to third party liability. They do not protect the customer against checking the products and directions for their suitability for the purpose. The characteristics and properties described are average values and analyses registered at 20°C, variances are tolerated. Our customer service will gladly answer your questions. The rewrite of this sheet replaces all previous sheets.