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Lime-based systems



What is lime?

Lime is a natural binder used in the preparation of paints, mortars, and plasters.

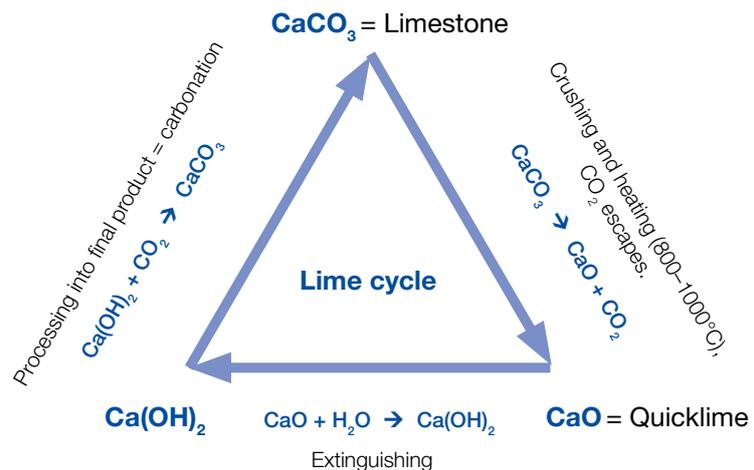
In its purest form ($\text{Ca}(\text{OH})_2$), we refer to it as chalk. The lime itself hardens through carbonation (a reaction with CO_2 from the air), which is why we call it **air lime**.

The lime used to make mortars and plasters contains clay and other hydraulic components. This is referred to as **hydraulic lime** (which hardens with water). In our lime products, these hydraulic components are naturally present (already in the quarry), which is why we call this natural hydraulic lime (NHL).

To process lime from the quarry into construction products, several steps are required.

You can see that the starting material (in the quarry) is the same as the final product (in the mortar), namely calcium carbonate (CaCO_3).

This is why we refer to it as the lime-CYCLE.



Base product: Natural Hydraulic Lime

Natural Hydraulic Lime is the base material for preparing mortars, plasters, pointing mortars, ect... We offer the following types:

- Socli Renochaux NHL 2 white**
- Socli Chaux NHL 3,5 white**
- Socli Chaux NHL 3,5 grey**
- Socli Chaux Rabot NHL 5 grey**



To make mortars, you mix this lime with sand, water, optionally pigments, and other additives.

Did-you-know ...

“Did you know that the number in the product name refers to the strength class of the lime?”

You can find the strength classes in the following table:

Code	Strenght
NHL 2	2 to 7 N/mm ²
NHL 3,5	3,5 to 10 N/mm ²
NHL 5	5 to 15 N/mm ²

Advantages of lime

Lime is a natural and biological product.



Mortars and plasters based on lime ...

- are vapor-permeable, breathable
- are easy to apply
- have excellent adhesion to the substrate
- respect the hardness (or rather: softness) of the substrate
- are reversible (can often be removed without major damage to the substrate)
- harden more slowly than cement-based products
- are compatible with the substrate in many ways, such as:
 - physically (strength, elasticity)
 - chemically (composition, formulation)
 - elasticity (lime products follow the deformations of the substrate)
 - hygroscopic behavior (absorption and easy release of moisture)
- are re-treatable (do not pose problems for future restorations)





System based on pure lime

Cent% Sous-Enduit

Base coat plaster made from natural hydraulic lime for interior and exterior use.

- Particularly suitable for old walls
- Based on 100% natural hydraulic lime

- Cement-free
- Excellent adhesion
- High vapour permeability

Recommended layer thickness: 2 cm
Consumption: approx. 16 kg/m²/cm



Cent% Finition

Mortar based on natural hydraulic lime.

- Particularly suitable for old walls
- Based on 100% natural hydraulic lime
- Cement-free
- Colourable: 5 shades, mutually mixable

Recommended layer thickness: 0,8 cm
Consumption: approx. 13 kg/m²/cm

Did you know ...

“Did you know that Cent% is the ideal name for these products? The binder is 100% lime, without any addition of cement or synthetic resins.”

System based on lime with cement addition

Renocolor Sous-Enduit

Exterior base coat plaster made from natural hydraulic lime with added cement.

- Based on natural hydraulic lime
- With cement addition for improved durability
- Compatible with harder substrates

Recommended layer thickness: 2 cm

Consumption: approx. 16 kg/m²/cm



Did you know ...

“Did you know that adding cement to lime mortar has several advantages?”

- The mortar will harden a bit faster and eventually become stronger than pure lime mortar.
- The mortar also becomes less sensitive to frost.
- Cement improves adhesion to the substrate. Note this when working on monuments: reversibility is reduced.
- The porosity and permeability of such a bastard mortar are lower. A pure lime mortar absorbs more moisture but also releases it more easily.

Renocolor Finition

Exterior finish coat plaster made from natural hydraulic lime with added cement.

- Based on natural hydraulic lime
- With cement addition for improved durability
- Compatible with harder substrates
- Colourable: 5 shades, mutually mixable

Recommended layer thickness: 0,7 cm

Consumption: approx. 13 kg/m²/cm



Salt-buffering plasters

When a wall is salt loaded, you can either block the salts (using membranes) or allow them to crystallize freely (with the downside of white efflorescence on the wall). The best solution is to apply a **salt-buffering plaster**. This is a very porous, open plaster that allows salts to crystallize within its pores. The plaster thus stores the salts so they do not appear visibly on the surface or cause damage during crystallization.

An additional advantage of the open, airy structure is that these plasters **prevent condensation**. In addition to walls and façades, they can also be used as a finish in basements.

Calisan NHL

Salt buffering plaster reversible based on natural hydraulic lime and hydraulic binders.

- Based on natural hydraulic lime
- With added cement for extra durability
- Salt buffering
- anti-condensation

Recommended layer thickness: 2 cm

Consumption: approx. 11 kg/m²/cm

Tradilys Protect

Renovation mortar for damp and salt loaded walls.

- Based on natural hydraulic lime
- Cement-free
- Salt-buffering
- Condensation-resistant

Recommended layer thickness: 3 cm

Consumption: approx. 12 kg/m²/cm

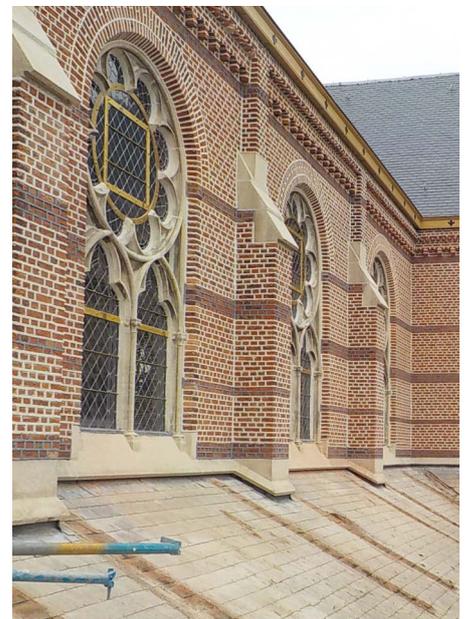
Califinish

Lime based finishing plaster for lime plasters.

- Based on natural hydraulic lime and hydraulic binders
- Fine finish
- Standard white, also available in 8 base shades
- Water-repellent

Recommended layer thickness: 2 mm

Consumption: approx. 1,4 kg/m²/mm



Special applications

Interior plaster based on hydraulic lime

Monolys

Ready-to-use lime plaster with very fine granulometry

for finishing monumental interiors.

- Maximum breathability
- Extra white
- Minimal cement addition for extra durability

- Ready-to-use interior plaster
- Smooth finishing (extra fine due to added marble powder)

Recommended layer thickness: 0,8 to 1 cm
Consumption: approx. 12 kg/m²/cm



Lime grout

Lime grout

Injection grout based on lime hydrate and pozzolans.

- For the injection of masonry and natural stone structures
- For consolidation as well as filling cavities



Natural stone restoration

Monulime

Lime based repair mortar for natural stone.

- Restoration of most types of natural stone
- Specifically designed for soft natural stones
- Mortar based on natural hydraulic lime, hydraulic binders and mineral fillers.

- Can be coloured with compatible, alkali-resistant pigments.
- 16 standard colours available

Recommended layer thickness: a few mm up to 5 to 6 cm
Consumption: 1,3 to 1,5 kg powder per dm³



Microplaster based on fat lime

Tonachino di San Tommaso

Thin-layer fine-grained microcoating based on natural lime.

- Fine layer
- For interior and exterior use
- Can be colored
- Cement-free

Recommended layer thickness: 0,7 cm
Consumption: approx. 7 kg/m²/cm



before



after



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Do you have any questions?

Feel free to contact us - our technical specialists are always at your service!