

CALCE SPENTA O GRASSELLO (SLAKED LIME OR LIME PUTTY)

(SEASONED 8-10 MONTHS)

DESCRIPTION

Air binding product according to traditional methods. Having carefully selected the stone, from the quarry, it is slow fired in specific furnaces at 950-980 °C, using sawdust as fuel. The quicklime, thus obtained, is subsequently "quenched" with plenty of water, giving rise to SLAKED LIME, or air-slaked lime. At this point, the product is left to cure in specific tanks, for at least 8-10 months: in this period the hexagonal crystals, composing the structure of the product, are gradually and slowly arranged in many parallel rows, making the lime putty more compact, sticky, tenacious and workable, therefore cured and ready for use.

Thanks to its natural characteristics, this product is attentive to health and safeguarding the individual and the environment.

TECHNICAL DATA

Specific weight of the fresh product (EN 1015-6)

1.350-1.450 kg/m³

"CALCIUM LIME 90" DESIGNATION ACCORDING TO UNI EN 459-1 CODE: EN 459-1 CL 90-S

LIME PUTTY: CHEMICAL ANALYSIS, EXPRESSED AS A %, IN OXIDE FORMAT

TEST CARRIED OUT ACCORDING TO THE STANDARD UNI EN 459-2:2001

CaO (Calcium oxide)	97 - 99*	<table border="1"> <thead> <tr> <th>TYPE OF LIME</th> <th>CaO + MgO</th> <th>MgO</th> <th>CO₂</th> </tr> </thead> <tbody> <tr> <td>Calcium lime 90</td> <td>≥ 90</td> <td>≤ 5</td> <td>≤ 4</td> </tr> <tr> <td>Calcium lime 80</td> <td>≥ 80</td> <td>≤ 5</td> <td>≤ 7</td> </tr> <tr> <td>Calcium lime 70</td> <td>≥ 70</td> <td>≤ 5</td> <td>≤ 12</td> </tr> </tbody> </table>	TYPE OF LIME	CaO + MgO	MgO	CO ₂	Calcium lime 90	≥ 90	≤ 5	≤ 4	Calcium lime 80	≥ 80	≤ 5	≤ 7	Calcium lime 70	≥ 70	≤ 5	≤ 12
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MgO (Magnesium oxide)	1 - 2																	
CO ₂ (Carbon dioxide)	2 - 4																	
SO ₃ (Sulphur trioxide)	0,1 - 0,2																	
Content in free water	49 - 54																	
Loss on ignition	60 - 65**																	

*After loss on ignition

**Summation of the free water, water linked to the calcium oxide and carbon dioxide

APPLICATION FIELDS

SLAKED LIME, or air-slaked lime, can be used for painting and murals, skimming, bas-reliefs and Marmorino finishes of high aesthetic and architectural value and frescoes.

The product is mixed with coarse sand to package bedding mortar to build walls with stone, bricks and mortar for rough plaster for indoors and outdoors; with fine sand to create any type of fine plaster.

ADDITIONAL NOTES

Difference between fresh and seasoned lime putty: quicklime, produced by firing quarry stone at 950-980 °C, when it is “quenched” with water, it creates fresh air-slaked lime. After approximately 8-10 months resting in specific tanks, the period in which the crystals arrange in a series of parallel rows, production is enabled of seasoned lime putty, a sticky, tenacious and workable product, ready for use.

What is an air binder: slaked lime is the most traditional binder. It is defined an air binder when hardening only takes place in contact with air, where carbon dioxide plays a fundamental role in the carbonation process.

Difference between seasoned slaked lime and powdered hydrated lime: slaked lime, before use, remains in contact with water for various months, thus promoting crystal formation; powdered hydrated lime is immediately used, without a previous, long and qualifying curing time.

Furthermore, seasoned slaked lime is finer than powdered hydrated lime.

SUPPLY

- Loose in 750 kg approx. metal containers, with a protective sheath (limited territorial distribution).
- 30 kg (approx.) bags
- 900 kg (approx.) big bags (30 bags x 30 kg approx.)
- Tank, on the ground.

Special lime putty for renovations or works of particular quality

Extra seasoned lime putty 24 months: available in 30 kg (approx.) bags.

Extra seasoned lime putty 36 months: available in 30 kg (approx.) bags.

STORAGE

Keep far from frost and excess heat; the temperatures should not go below 5°C and over 30°C. Unopened, the product will last perfectly for decades.

The data outlined refer to tests carried out by the Morandi Bortot srl laboratory; in practical applications on building sites, these can change considerably based on the working conditions. The user must however check the product is suitable for its planned use, assuming all responsibility for such use. Our products undergo continuous quality controls on the raw materials and the end product to guarantee constant quality. Our technicians and consultants are available for any information or clarifications you may need, on how to use and work our products. Morandi Bortot srl reserves the right to make changes without prior notification.

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