

Secil NATURAL LIME NHL 2

NHL 2 – NATURAL HYDRAULIC LIME

TC.E.005.2

1. DESCRIPTION

Secil NATURAL LIME NHL 2 is a natural hydraulic lime, hydraulic binder constituted by silicates, calcium aluminates and calcium hydroxide, obtained by firing marl limestone followed by grinding. *Secil NATURAL LIME NHL 2* is classified as NHL 2 according to NP EN 459-1.

Secil NATURAL LIME NHL 2 is a singular binder, because apart from the hydraulic setting, it also presents air setting, obtained by carbonation with atmospheric CO₂.

2. FIELD OF USE

In the fabrication of mortars, as sole binder or in admixture with other hydraulic or air binders, giving them workability and flexibility, reducing significantly the retraction of hydraulic mortars (for example, mortar for render, finishing or grout of old masonries). In the fabrication of mortars for rehabilitation, as sole binder, in the execution of external and internal renders on old substrates.

3. PRODUCT CHARACTERISTICS

CHEMICAL CHARACTERISTICS	VALUE	STANDARD
Free lime Ca(OH) ₂	≥ 35,0 %	EN 459-1
Sulfate	≤ 2,0 %	EN 459-1
PHYSICAL CHARACTERISTICS	VALUE	STANDARD
Color	Beige	-
Free water	≤ 2,0 %	EN 459-1
Apparent density	0,65 ± 0,05 kg/dm ³	-
Density	2,7 g/cm ³	-
Fineness	90 μm ≤ 15,0 % 200 μm ≤ 5,0 %	EN 459-1
Expansion	≤ 2,0 mm	EN 459-1
Penetration	> 10 mm and < 50 mm	EN 459-1
Air level	≤ 5,0 %	EN 459-1
Setting time	Initial > 1 h Final ≤ 40 h	EN 459-1
MECHANIC CHARACTERISTICS	VALUE	STANDARD
Compressive strength (28 days)	≥ 2,0 and ≤ 7,0 MPa	EN 459-1

4. APPLICATION

FABRICATION OF MORTARS

The dosing of *Secil NATURAL LIME NHL 2* in a mortar should be appropriate to the intended use. In mortars for render and laying *Secil NATURAL LIME NHL 2*, has a major role as sole binder.

Premix *Secil NATURAL LIME NHL 2* with the aggregate and afterwards add the right quantity of water to obtain a good workability.

Restrictions

Do not apply mortars under temperatures below 5º C and above 30º C, avoiding the application in situations of high sun exposure and/or under strong winds.

Do not use weakened mortars or that have already started the setting process.

Avoid fast dry of the mortars, by watering the substrate, 1 to 2 hours before the application and as soon as the mortar presents enough resistance. Repeat watering 1, 2 and 7 days later.

Further advice

- ▶ The excess of mixing water is damaging to the physical characteristics of the mortar;
- ▶ Always use the minimum quantity of water to allow good workability;

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Quarry



Lime factory



Fired stone

- ▶ The mixing water should be free of impurities (clay, organic matter) and preferably be drinkable;
- ▶ Once the trace to use for a mortar is determined, keep the dosing constant as well as the mixing time.

6. PACKAGING AND VALIDITY

Packaging

- ▶ Paper bags of 25kg in plasticized pallets;
- ▶ Bulk for use in silo system.



Validity

12 months provided the conditions of the original packaging remain unaltered and in good storage conditions, protected from extreme temperature and humidity.

Being in conditions of applying our products out of our reach we do not take responsibility for its misuse. It is the customer's duty to verify the suitability of the product for the intended purpose. In any case, our responsibility is limited to the value of the goods supplied by us. The information contained in the present data sheet may be altered without prior notice. In case of doubt and if you need any further advice please contact our Technical Services.

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7. HEALTH AND SAFETY

(DOES NOT REPLACE CONSULTATION OF THE PRODUCT SAFETY DATA SHEET)

- ▶ Irritating to skin;
- ▶ May cause serious injuries in the eyes;
- ▶ May cause irritation to respiratory system;
- ▶ Avoid breathing dust/ vapors.
- ▶ Keep out of children's reach;
- ▶ Wear protective gloves and clothing/ eyes protection/ facial protection;



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Secil Natural Lime NHL 2

EN 459-1:2011

Certificate: 1328-CPR-0215

Natural Hydraulic Lime – NHL 2

Declaration of performance TC.E.0637

Secil Argamassas

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