

Secil Natural Hydraulic Lime

TC.E.017.6 EN

1. DESCRIPTION

Secil Natural Hydraulic Lime (NHL 5) is a hydraulic binder composed in its majority by calcium aluminates and silicates, and calcium hydroxide. It is obtained by the burning of marlstone, followed by grinding.

Its chemical and physical properties place the **Secil Natural Hydraulic Lime** in the class of superior resistance (NHL5), according to the N EN 459 of CEN.

The **Secil Natural Hydraulic Lime** is a unique binder because, although it features a predominantly hydraulic setting process, it also features a carbonation process that occurs simultaneously, but for a longer period of time.

2. FIELD OF APPLICATION

In the production of mortars, as only binder, or mixed with other hydraulic or air binders, providing them workability and flexibility, significantly reducing the retraction in hydraulic mortars;

In the production of rehabilitation mortars, as only binder, in the execution of exterior renderings over old substrates (contact our technical services for the evaluation of applicability in each case) in the production of blocks and other construction artefacts;

3. PRODUCT CHARACTERISTICS

Properties	Value	Norm
Free Lime (%) (Ca(OH) ₂)	≥ 15	EN 459-1
Sulfate (%)	≤ 2	EN 459-1
Free Water (%)	≤ 2	EN 459-1
Fineness (%)	90 μm ≤ 15 200 μm ≤ 2	EN 459-1
Mechanical Resistance to Compression 7 days (MPa)	≥ 2,0	EN 459-1
Mechanical Resistance to compression 28 days (MPa)	≥ 5,0 to ≤ 15	EN 459-1
Soundness (mm) Alternative Method	≤ 20	EN 459-1
Penetration (mm)	> 10 e < 50	EN 459-1
Air content (%)	≤ 5	EN 459-1
Initial setting time (h)	> 1	EN 459-1
Final setting time (h)	≤ 15	EN 459-1

4. HIGIENE AND SAFETY

- ▶ This is a non toxic or flammable product.
- ▶ May cause irritation of the eyes, skin and respiratory tract
- ▶ May cause sensitivity in contact with skin
- ▶ Do not inhale the powder
- ▶ In case of contact with eyes, wash immediately and abundantly with water, and seek medical advice
- ▶ Use protective garments and adequate gloves
- ▶ Keep away from children

5. PACKAGING AND STORAGE

Packaging

- ▶ 25 kg bags on plastified pallet or in bulk

Storage

Secil Natural Hydraulic Lime must be transported, handled and stored in its original packaging (should only be opened for immediate use), away from humidity and exposure to heat.

In this conditions, **Secil Natural Hydraulic Lime** can be stored for a 6 month limit time period.

Secil Argamassas

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Once the application conditions of our products are beyond our reach, we will not be held responsible for its incorrect usage. It is the client's duty to verify the suitability of the product for the predicted use. In any case, our responsibility is limited to the value of goods supplied. The information shown on this file may be changed without previous notice. In case of doubt, and if you should need any additional information, please contact our technical services.

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DESIGNATION: Secil Natural Hydraulic Lime

STANDARD OF REFERENCE: N EN 459

YEAR: 03

Predicted Use: Limecrete floors, cappings, flaunching and rough mortars, and production of other construction materials.

Product produced by Secil Martingança S.A., with a Quality Management System certified by APCER with the n° 2003/CEP. 2132