

1. DESCRIPTION

The **Secil ecoCORK Lime** is a lightweight render, formulated with natural cork aggregates, Natural Hydraulic Lime, lime aggregates and additions.

With the introduction of cork and Natural Hydraulic Lime in the formula, **Secil ecoCORK Lime** reaches a new status in sustainable building products with an ecological side. Simultaneously, this mortar contributes for the improvement of the thermal and acoustic insulation of the constructive elements, where it is applied.

Secil ecoCORK Lime is specially formulated for manual application on walls and ceilings, in interiors and exteriors.

2. FIELD OF APPLICATION

Secil ecoCORK Lime is recommended in the execution of lightweight renders on walls and ceilings, in interiors and exteriors, where it is intended to increase the thermal and acoustic performance of the substrates. This render is part of an acoustic and thermal double layer solution, which corresponds to the filling layer.

Secil ecoCORK Lime must be applied over a rough cast, similar to our **REABILITA Cal Consolidação**, on ceramic brick, cement block, concrete and stone masonry substrates. However, on some of these substrates, special caution measures on adhesion conditions must be taken into consideration (see restrictions).

Can be used as refurbishing material in ancient buildings. In these situations, please contact our Technical Services for specialized advice.

3. PRODUCT CHARACTERISTICS

PRODUCT IN POWDER	Value	Standard
Granulometria (mm)	< 2,0	-
PRODUCT IN PASTE	Value	Standard
Mixing Water (%)	47,5 ± 1	EN 1015-3
Air Content (%)	19	EN 1015-7
Density (kg/m ³)	900	EN 1015-6
Theoretical Consumption (kg/m ² /cm)	5,0 ± 0,5	-
HARDENED PRODUCT	Value	Standard
Compressive Strength (Class)	CSI	EN 1015-11
Flexural Strength at 28 days(N/mm ²)	0,4	EN 1015-11
Capillarity (Classe)	W1	EN 1015-18
Water vapour permeability (μ)	<15	EN 1015-19
Thermal Conductivity (Class)	T2	EN 12664
Density (kg/m ³)	< 800	EN 1015-10
Adhesion to Brick/ MF (N/mm ²)	0,1 / B	EN 1015-12
Reaction to fire (Class)	A2s1d0	EN 12667

4. APPLICATION

Preparing the substrates

The substrates must be free from dust, dismantling fluids, disaggregated or unstable materials, fluorescences, as well as any type of material that can affect the normal adhesion conditions. Particularly, in dry weather, spray the substrate regularly with water. On edges, particularly on particularmente em cunhais dos edifícios e ombreiras de vãos, we recommend the application of adequate profiles.

Before applying **Secil ecoCORK Lime**, a rough cast layer must be executed, preferably with our **REABILITA Cal Consolidação**.

Secil ecoCORK Lime

HYDRAULIC LIME RENDER WITH NATURAL CORK AGGREGATES



Preping the substrate with rough cast



Application of mortars



Trowelling

Preparing the mortar

Secil ecoCORK Lime must be mixed with 6,5 to 7,0 litres of clean water for every bag of product, with an electrical mixture until a homogeneous paste is obtained.

Application

In order to minimize working joints, please ensure, whenever possible, that complete panels are executed. Works must be restarted within 12 hours.

Proceed with the reinforcement of renders in traction areas, specially in the transition points between different substrate materials, shutters, frames, spans, smooth surfaces, with a squared fibreglass mesh, anti-alkaline treatment, and adequate mesh size.

The reinforcement mesh must be conveniently imbedded in the render or rough cast mortar thickness, whenever the **Secil ecoCORK Lime** is applied in a single layer. When applying **Secil ecoCORK Lime** in two or more layers, please consider the following instructions:

- ▶ Apply a layer of **Secil ecoCORK Lime** over a substrate rough cast with **REABILITA Cal Consolidação**;

- ▶ Conveniently imbed the reinforcement net in the executed layer;
- ▶ Apply the necessary mortar until an adequate thickness is obtained, ensuring that lower layer is still workable.

Predict the existence of expansion joints on highly dimensioned panels, specially on façades facing the south west quadrant, with an adequate spacing that can ensure the normal function of the render.

After the mortar is applied, the final surface of **Secil ecoCORK Lime** must be conveniently trowelled and prepared to receive the final finishing layer.

We advise our customers to leave the mortar to set for at least 14 days, before applying the second stage of the system, the finishing layer.

Thicknesses

In exterior applications, please ensure that a minimum thickness of 1 cm is applied, in order to ensure the normal functioning of the render, in what concerns water absorption.

In particular cases, specially in areas of significative humidity and in exposure to strong winds,

we recommend the execution of a minimum 1,5 cm layer. Never apply in layers with thickness below 1 cm.

The render must not be applied in thicknesses above 3cm. Whenever necessary, proceed with the execution of several layers, always ensuring that the following procedures are respected:

- ▶ The different layers must have identical thicknesses between them;
- ▶ The 2nd layer must be applied after the first has started to set. The first layer, however, must still be fresh.

Restrictions

Secil ecoCORK Lime is a hydraulic mortar and therefore must not be applied at ambient or substrate temperatures below 5 °C or above 30 °C. It's curing period is 28 days In dry weather or in exposure to strong winds, please proceed with the following:

- ▶ Protection of façades, in order to minimize the direct action of the wind.
- ▶ Spraying with water during the first days afetr hardening process has startedós endurecimento.

Secil **ecoCORK** Lime

HYDRAULIC LIME MORTARS WITH NATURAL CORK AGGREGATES

Additional Advice

- ▶ The mixing water must be free of any impurities (clay, organic material). Whenever possible, please use potable water;
- ▶ No mortar must be applied after the setting process has started. Do not soften the mortar;
- ▶ Do not add any products to the mortar. **Secil ecoCORK Lime** must be prepared and applied exactly as recommended in the original package.

5. PACKAGING AND VALIDITY

Packaging

14 kg paper bags on plasticized pallets.



Validity

As long as the packaging conditions are maintained, in storage away from extreme temperatures and humidity, the product has a shelf-life period of 12 months..

6. ASSOCIATED PRODUCTS

- ▶ **REABILITA Cal Consolidação**
(Consolidation mortar for old masonry and natural hydraulic lime-based substrates)
- ▶ **Reabilita RR 20**
(Render repair mortar)
- ▶ **REABILITA Cal Acabamento**
(Natural hydraulic lime based finishing render)

7. HYGIENE AND SAFETY

(DOES NOT DISMISS CONSULTATION OF THE PRODUCT'S SAFETY DATA FILE)

- ▶ May cause sensitivity in contact with skin;
- ▶ May cause serious damage to eyes;
- ▶ May cause irritation to respiratory tract;
- ▶ Keep away from children;

- ▶ Use protective gloves and garments, eyewear and facial protection;
- ▶ Do not inhale the powder;
- ▶ Avoid contact with eyes and skin;
- ▶ In case of contact with eyes, wash immediately and abundantly with water and seek medical advice;

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.

*Reviewed on March 2012
TC.E.086.1*



DESIGNATION:: Secil ecoCORK Lime
REFERENCE STANDARD: EN 998-1

YEAR: 12

PREDICTED USE: Industrial mortar of inorganic binders for walls and ceilings, in interiors and exteriors.

Lightweight (LW) and Thermal Insulation Mortar (T) for applications in interiors and exteriors