



SECIL **TEK**

SHAPING IDEAS



NHL PRODUCTS FOR

SUSTAINABLE BUILDING AND RENOVATION



HISTORY

SINCE 1891 OUR HISTORY, OUR TRADITION, INOVATION

Hydraulic lime has been used as a binder in construction for hundreds of years. Secil has an age-old tradition in its production, which eventually evolved to Natural Hydraulic Lime (NHL).

Through research and development in the manufacturing process, we were able to create a traditional binder to address modern needs.

Natural Hydraulic Lime (NHL) is the chosen binder for rehabilitating and restoring old buildings, since it respects the original substrate. This

compatibility comes from properties such as its elasticity, permeability to vapour and resistance to salts. Because of its excellent workability and ease of application, prescribers and applicators have begun to reintroduce this binder in new construction. This is why preserving the past is just as important as caring for the future.

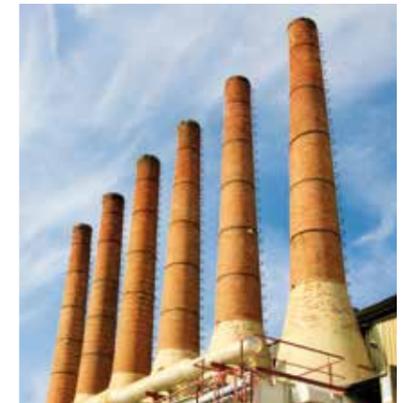
INTRODUCTION

Founded in 1891, SECILTEK is proud to be one of the oldest Natural Hydraulic Lime plants in the world.

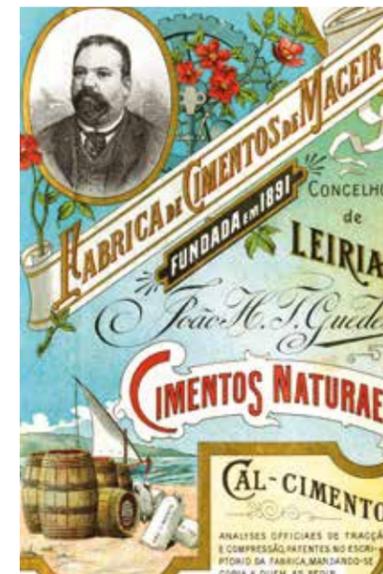
Part of the Secil Group, SECILTEK features a diversified range of products, formulated with Natural Hydraulic Lime, and natural renewable raw materials, such as cork, with the intention of ensuring future generations a sustainable

development, promoting values of environmental, social, cultural and economical nature.

SECILTEK has implemented a Quality Management System according to the Standard EN ISO 9001:2008. All of the products developed have EC branding, in accordance with the European Standards in force.



Maceira Production Unit



Secil Natural Hydraulic Lime

PURE NATURAL HYDRAULIC LIME NHL 2, NHL 3,5 AND NHL 5

Hydraulic lime is a binder used successfully for hundreds of years in construction. It stands out for setting process and achieving mechanical resistance in contact with water. The carbon dioxide existent in the atmosphere contributes equally for the hardening process.

Nowadays, natural hydraulic lime is applied as a selected binder in sustainable construction and in the renovation of ancient buildings.

IN SUSTAINABLE CONSTRUCTION:

The production of Natural Hydraulic Lime requires a smaller amount of energy, thus releasing less CO₂, when compared to other conventional hydraulic binders. It is a breathable and durable material, with a unique capacity to absorb CO₂, during the carbonation process of its free lime content. The mortars produced with Natural Hydraulic Lime are also highly recyclable materials.

IN RENOVATION:

Mortars prepared with Natural Hydraulic Lime are a good fit for the renovation of ancient buildings, thanks to their exceptional properties, by ensuring a total compatibility with this type of substrates. Characteristics of elasticity and permeability to vapour, salt resistance and the progressive development of mechanical resistance, ensure an excellent preservation of historical heritage.

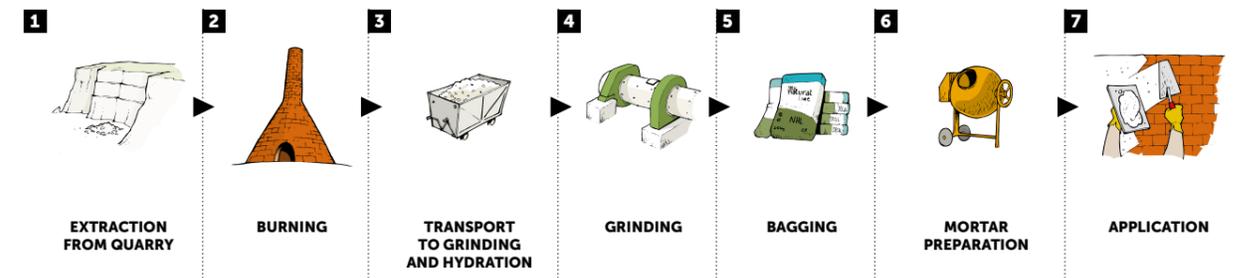
Secil Natural Hydraulic Lime is produced at the Maceira factory, located in the centre of Portugal. The traditional production techniques have been passed on from generation to generation for over 120 years. This vast experience, in association with a strict quality control, ensures Secil a unique knowledge in Natural Hydraulic Lime, as evidenced by the thousands of works supplied.

Secil produces three types of Natural Hydraulic Lime, NHL 2, NHL 3.5 and NHL 5. All limes are accredited according to the most recent specifications of the European Standard EN 459-1:2011.

ADVANTAGES

- Purity (100% natural, free from additives)
- Total physical and chemical compatibility with old substrates
- Hydraulic binder with mechanical resistance evolving gradually
- Excellent workability
- High permeability to vapour
- High content of free lime
- Great elasticity
- Compatible with several types of substrates (brick, blocks, wood, concrete, adobe)
- According to the standard EN 459-1:2011
- Sustainable and recyclable material

MANUFACTURING PROCESS



APPLICATIONS OF SECIL NHL

- ▶ Mortars for Sustainable Building
- ▶ Renders for the renovation of old buildings or in new construction
- ▶ Decorative finishes
- ▶ Block and brick-laying mortars
- ▶ Re-pointing mortars for stone masonry
- ▶ Screed mortars
- ▶ Decorative finishes
- ▶ Limecrete
- ▶ Production of bricks or other construction artefacts
- ▶ Injection grouts
- ▶ Soil treatment





REABILITA CAL

NATURAL HYDRAULIC LIME RENDER MORTARS

Secil's vast experience in lime mortars has been proved in many renovation works on centennial buildings of high recognition. We highlight the use of our products in the renovation of buildings such as the National Museum Machado de Castro in Coimbra, with two thousand years of history; in the Museum of S. Roque in Lisbon, built in the 15th century; in the Palace of Seteais, from the 18th century, and more recently in the Trindade Theatre in Lisbon, 19th century.

Secil's **REABILITA CAL** is a complete range of mortars formulated exclusively with Natural Hydraulic Lime, natural aggregates and additives. They represent a complete solution for facade renovation on old buildings, featuring an adequate physical and chemical compatibility with these substrates. They are also adequate for use in new building.

TEXTURED FINISHING



LEGEND

- ① Substrate
- ② **REABILITA CAL CS** (Consolidation)
- ③ **REABILITA CAL RB** (Render)
- ④ **ISOVIT AD25** (primer)
- ⑤ **ISOVIT REV SP** (Silicate based paint)

FINE FINISHING



LEGEND

- ① Substrate
- ② **REABILITA CAL CS** (Consolidation)
- ③ **REABILITA CAL RB** (Render)
- ④ **REABILITA CAL AC ARMADO**
- ⑤ **REABILITA CAL AC FINO COLORIDO**
- ⑥ **B-REPARA AD 40**

REABILITA CAL

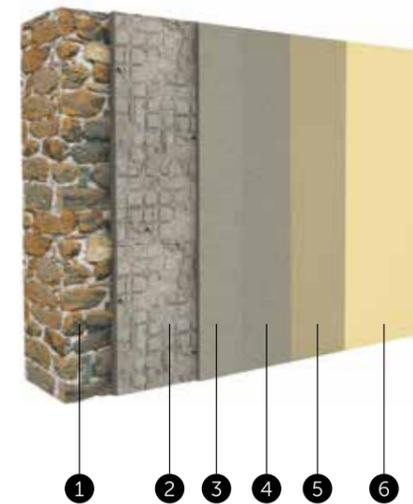
NATURAL HYDRAULIC LIME RENDERING MORTARS

The build-up is composed by **REABILITA CAL RB** (Render) for the leveling and filling of facades and interior walls. In renovation works, we recommend the previous use of our **REABILITA CAL CS** (Consolidation) mortar in order to stabilize and homogenize the old substrate. The finishing is performed with our **REABILITA CAL AC** mortar, available in three colours: Natural, Ocre and Brick.

ADVANTAGES

- Mortars formulated exclusively with Natural Hydraulic Lime
- Total physical and chemical compatibility with old substrates
- Excellent deformability
- Excellent permeability to vapour: breathable
- Mechanical resistance evolving gradually
- Without calcium sulfate
- Highly resistant to salts
- High content of free lime
- CO₂ absorption throughout carbonation
- Great workability
- High durability
- Recyclable

TEXTURED FINISHING



LEGEND

- 1 Substrate
- 2 **REABILITA CAL CS** (Consolidation)
- 3 **REABILITA CAL RB** (Render)
- 4 **REABILITA CAL AC**
- 5 **ISOVIT AD25** (primer)
- 6 **ISOVIT REV SP** (Silicate based paint)



REABILITA CAL RJ

DECORATIVE RE-POINTING MORTAR FOR STONE MASONRY

The stone masonry facades or walls, at sight, represent architectural solutions with high aesthetic value, and carry a long tradition in construction. The **REABILITA CAL RJ** mortar, formulated exclusively with Natural Hydraulic Lime, was specially designed for this application, ensuring an extended durability. Applicable in renovation or in new construction, the Secil **REABILITA CAL RJ** features a NHL natural colour, which blends in perfectly with most types of stone masonry.

ADVANTAGES

- Formulated exclusively with Natural Hydraulic Lime
- Natural coloured rustic finishing
- Excellent deformability
- Excellent permeability to vapour: Breathable
- Without calcium sulfates
- High content of free lime
- CO₂ absorption throughout carbonation
- Resistant to salts
- Great workability
- High durability
- Recyclable

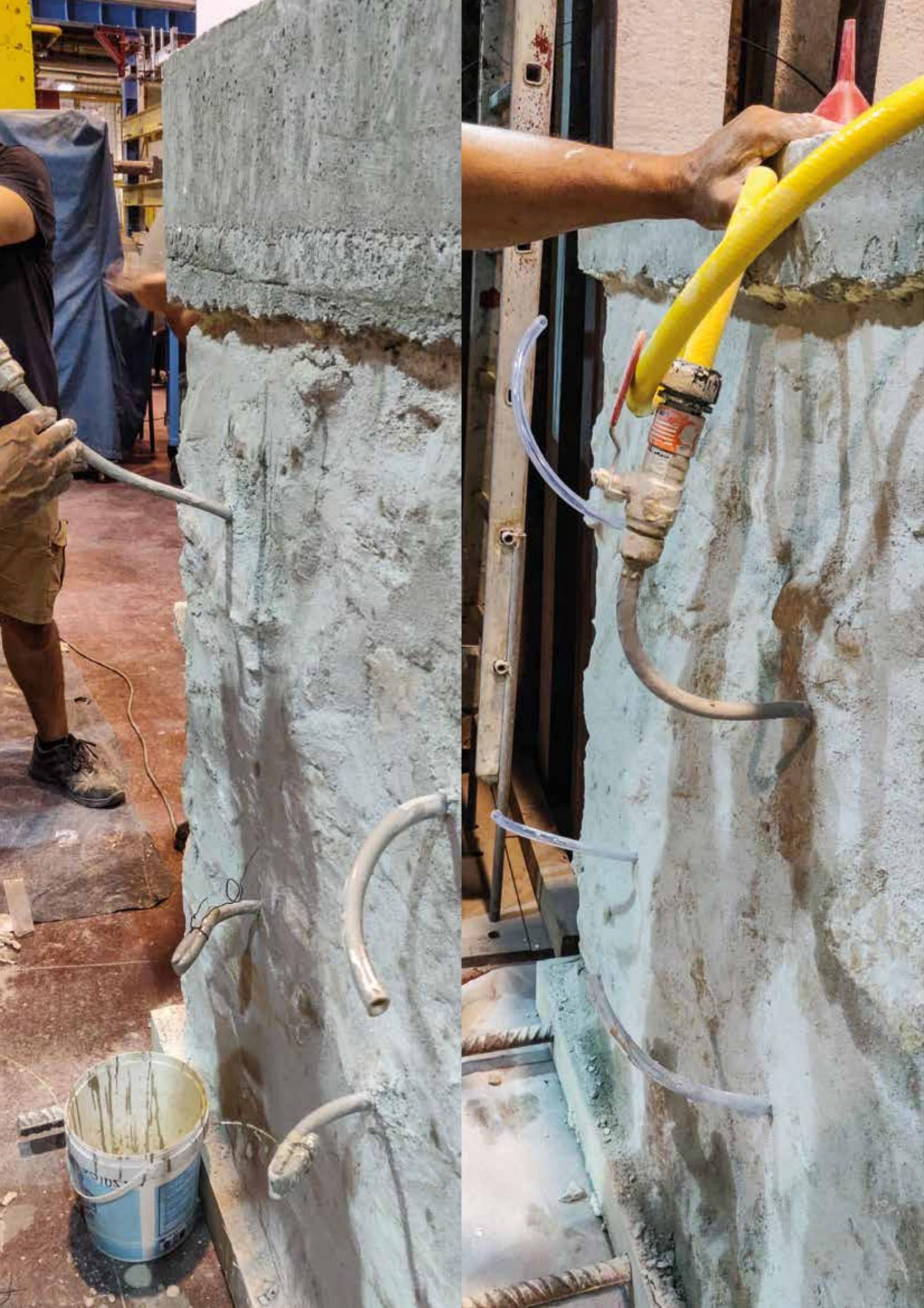


1

2

LEGEND

- 1 Stone Masonry
- 2 REABILITA CAL RJ



REABILITA CAL INJECT

LIME GROUT INJECTION

Over time, stone masonry facades and walls age will deteriorate. When there is a need to structurally reinforce old masonry structures, the injection technique must be used using **REABILITA CAL INJECT**.

REABILITA CAL INJECT is used to inject old brick, stone or mixed masonry into structural elements in need of reinforcement, such as structural walls, foundations, pillars, arches and vaults. Its exceptional fluidity allows to reach the inner parts of the structures as well as solving cracking problems.

ADVANTAGES

- High fluidity
- Full chemical and mechanical compatibility with old masonry
- High permeability to vapour
- High resistance to salts
- Chemical compatibility with metallic element



1

LEGEND

- 1 NHL grout injection process in old wall with **REABILITA CAL INJECT**



ADHERE CAL

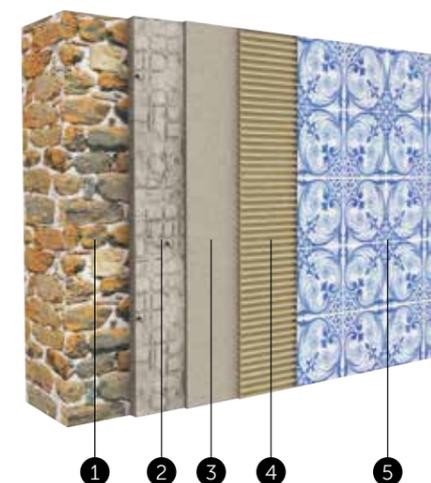
TILES ADHESIVE

Tiling, an ancestor art, is associated with ancient techniques of collage that used lime grout prepared on site.

In modern construction and renovation, it is necessary to use pre-dosed products for construction, such as **ADHERE CAL**, to ensure the stability and consistency of the application.

ADVANTAGES

- Adhesion and rejoining with the same product
- Suitable for porous coatings
- Does not stain coatings
- Compatibility with older media
- Compatibility with old coatings



LEGEND

- ① Substrate
- ② REABILITA CAL CS
- ③ REABILITA CAL RB
- ④ ADHERE CAL (Adhesive and rejoining mortar)
- ⑤ Ancient ceramic tiles



ECOCORK LIME

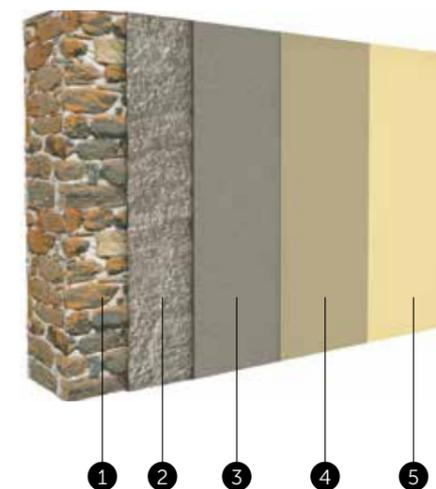
NATURAL HYDRAULIC LIME-BASED MORTAR WITH CORK AGGREGATES

NATURAL BUILDING!

In sustainable construction framework, Secil features an exceptional innovation targeting environmental performance for rendering.

THE ECOCORK LIME RENDER

This is a render formulated exclusively with Natural Hydraulic Lime, which stands out for incorporating cork aggregates, of natural and renewable origin, instead of natural but non-renewable, siliceous aggregates. Additionally, cork is an excellent thermal insulator, and thus **ECOCORK LIME** contributes for an effective reduction of energy consumption in buildings.



LEGEND

- 1 Substrate
- 2 **REABILITA CAL CS** (Consolidation)
- 3 **ECOCORK LIME** (Render)
- 4 **REABILITA CAL AC** (Finishing)
- 5 **ISOVIT AD 25** (Primer) + **ISOVIT REV SP** (Silicate based paint)

ADVANTAGES

- Render with a good environmental performance
- Formulated exclusively with Natural Hydraulic Lime
- Incorporates natural and renewable cork aggregates
- Exceptional permeability to vapour
- Improves thermal performance of buildings
- Improves the dynamic behavior of the constructive solutions, with an excellent capacity of energy storage
- Improves acoustic insulation, contributing for noise reduction to airborne noise up to 7dB
- Light material (reduction of around 50% in bulk density for every m³, in comparison with other traditional lime mortars)
- High labor efficiency - Mechanically Sprayed
- Reduction on the quantity of materials used in every sqm of construction
- High durability (excellent behavior during freeze/thaw cycles)
- Excellent deformability
- Great workability
- Resistant to salts

ISOVIT CORK

MAXIMUM THERMAL, ACOUSTIC AND ENVIRONMENTAL PERFORMANCE

The **ISOVIT CORK** system combines the superior thermal performance of an EWII/IWI system with efficient environmental performance. Indeed, the use of 100% natural expanded corkbased panels for the total covering of a building ensures maximum thermal insulation and significant acoustic protection, while preserving the environment.

Natural and renewable (harvested from the cork oak every 9 years), the cork supplied by SECILTEK in the **ISOVIT CORK** system is an insulating material permeable to vapour, free from any chemicals, synthetic resins or carcinogenic materials, which contributes to a healthy indoors.

The low thermal conductivity ($\lambda=0.040$ W/m.K) promotes high energy efficiency, thus contrib-

uting to economic and environmental savings. The **ISOVIT E-CORK** bonding mortar, also made up of Natural Hydraulic Lime (NHL) and cork aggregates, ensures perfect compatibility and reinforcement of the insulation panels, complemented with **REABILITA CAL AC**, a 100% Hydraulic Lime-based finishing mortar Natural (NHL), for effective weather protection.

Natural Hydraulic Lime and Cork

THE PERFECT RELATION

With clearly superior ductility and an ability to withstand high stresses that can cause cracking, mortars with Natural Hydraulic Lime (NHL) and Cork aggregates also have a low resistance to vapour permeability, taking advantage of the full potential of insulation in Cork Agglomerate. Cork, a renewable raw material, 100% natural and a thermal, acoustic and anti-vibration insulator – its addition in mortars assures durability, without loss of resistance and adhesion characteristics.

ADVANTAGES

- Excellent thermal protection
- High thermal inertia
- Reduction of energy costs
- Superior environmental performance
- Renewable and 100% Natural Insulation
- Promotes cork oak forests



ISOVIT CORK, ISOVIT CORK INTERIOR and ISOVIT CORK WOOD

THE NATURAL CHOICE. THERMAL PROPERTIES, ACOUSTIC AND ENVIRONMENTAL PERFORMANCE

The **ISOVIT CORK** and **ISOVIT CORK WOOD** systems are identical in everything, differing only in the substrate on which they are applied. **ISOVIT CORK** is specially designed for previously plastered masonry/concrete substrates, while **ISOVIT CORK WOOD** was developed for applications on wooden

substrates. This small difference has implications for the type of anchors for mechanical fixing of the panels, and this is highlighted by the applicable standard. Thus, European ETA certifications are available for both systems.

ADVANTAGES

- Excellent thermal and acoustic performance
- Applicable on wooden supports (**ISOVIT CORK WOOD**)
- System with lime-based mortars
- Fine sanded finish
- Silicate based breathable painting
- High permeability to vapour
- High environmental performance

ISOVIT CORK



LEGEND

- 1 Substrate
- 2 REABILITA render
- 3 ISOVIT E-CORK adhesion mortar
- 4 ISOVIT ICB insulation panel
- 5 ISOVIT BUCHA mechanical fixing
- 6 ISOVIT E-CORK adhesion mortar
- 7 ISOVIT E-CORK adhesion mortar with ISOVIT REDE 160/343 reinforcement mesh
- 8 REABILITA CAL AC fine sanded finishing mortar
- 9 Silicate paint scheme: ISOVIT REV AD25 + ISOVIT REV SP

ISOVIT CORK INTERIOR



LEGEND

- 1 Substrate
- 2 REABILITA CAL CS
- 3 PAINEL ICB + ISOVIT BUCHA
- 4 ISOVIT E CORK + ISOVIT REDE 160 + ISOVIT E CORK
- 5 REABILITA CAL AC + REABILITA CAL AC FINO
- 6 ISOVIT AD25 (Primer) + ISOVIT REV SP (silicate-based paint)

ISOVIT CORK WOOD



LEGEND

- 1 Substrate
- 2 ISOVIT E-CORK adhesion mortar
- 3 ISOVIT ICB insulation panel
- 4 ISOVIT BUCHA MADEIRA mechanical fixing
- 5 ISOVIT E-CORK adhesion mortar
- 6 ISOVIT E-CORK adhesion mortar with ISOVIT REDE 160/343 reinforcement mesh
- 7 ISOVIT AD 26 anti-alkali primer
- 8 ISOVIT REV SL silicate textured finish

ISOVIT CORK MD

CORK AS INSULATOR AND FINISH

The **ISOVIT CORK MD** system takes advantage on the technical characteristics of expanded cork panels - **ISOVIT PANEL MD** - to provide thermal and acoustic insulation, while using them as a decorative element for the facade.

This system is fixed by continuous gluing to mechanically strong and straightened supports. For this purpose, SECILTEK developed a specific bonding mortar with unique characteristics of flexibility, formulated on the basis of natural hydraulic lime (NHL) and cork aggregates - **ISOVIT E-CORK MD**.

ISOVIT CORK MD



- LEGEND**
- 1 Substrate
 - 2 REABILITA render
 - 3 ISOVIT E CORK
 - 4 ISOVIT PAINEL ICB MD

ADVANTAGES

- Cork as a decorative element
- Waives layers of regularization and finishing
- Excellent thermal and acoustic performance
- High permeability to vapour
- High environmental performance



ISOVIT CORK SKIN and ISOVIT CORK SKIN WOOD

CORK AS INSULATOR AND FINISHING

ISOVIT CORK MD, ISOVIT CORK SKIN and **ISOVIT CORK SKIN WOOD** are systems developed for use in buildings as thermal and acoustic insulation on the outside, when cork is intended to be used as a decorative element and insulation needs require very high thicknesses.

with the recommended fixing systems. The **ISOVIT ICB MD** panels are applied over it, using a continuous bonding method only, as a decorative and final element of the SKIN systems.

ISOVIT CORK MD is fixed by continuous gluing to mechanically strong and straightened supports.

The **ISOVIT CORK SKIN** and **ISOVIT CORK SKIN WOOD** systems are identical in every way, differing only by the substrate on which they are applied. **ISOVIT CORK SKIN** is specially designed for previously plastered masonry/concrete substrates, while **ISOVIT CORK SKIN WOOD** was developed for applications on wooden substrates. This small difference has implications for the type of anchors for mechanically fixing the panels.

These systems are made up of two panels of agglomerated cork with different densities. The ICB panels, also constituting the **ISOVIT CORK** and **ISOVIT CORK WOOD** systems, are glued with **ISOVIT E-CORK MD** mortar and mechanically fixed

ISOVIT CORK SKIN



- LEGEND**
- 1 Substrate
 - 2 REABILITA render
 - 3 ISOVIT E CORK
 - 4 PAINEL ICB + ISOVIT BUCHA
 - 5 ISOVIT E CORK
 - 6 ISOVIT PAINEL ICB MD

ISOVIT CORK SKIN WOOD



- LEGEND**
- 1 Substrate
 - 2 ISOVIT E CORK
 - 3 PAINEL ICB + ISOVIT BUCHA
 - 4 ISOVIT E CORK
 - 5 ISOVIT PAINEL ICB MD

ADVANTAGES

- Suitable for high thickness applications
- Cork as a decorative element
- Waives layers of regularization and finishing
- Excellent thermal and acoustic performance
- High permeability to vapour
- High environmental performance

ISOVIT WF (EWI/IWI)

WOOD FIBER AS A SUSTAINABLE THERMAL INSULATOR

ISOVIT WF is an EWI/IWI system that uses wood fiber panels for thermal insulation.

The technical features of these panels, associated with the known performance of mortars based on Natural Hydraulic Lime (NHL), make **ISOVIT WF** system a sustainable constructive solution and with special physical properties, namely in terms of vapour permeability, contributing to a better indoor air quality.

The wood fiber board is a material which by its nature contributes to the capture of CO₂ and the consequent improvement of the environment. Its

low thermal conductivity promotes high energy efficiency, economic and environmental savings.

For fixing and levelling the **ISOVIT WF** system, **ISOVIT LIME** mortar shall be used as it's Natural Hydraulic Lime (NHL) based, which ensures perfect compatibility with **WOOD FIBER (WF)** insulation panels.

The finishing layer is made by using **REABILITA CAL AC** mortar, also formulated with NHL, providing a textured finish followed by silicate paint system, **ISOVIT AD 25** primer and the **ISOVIT REV SP** paint.



LEGEND

- 1 Substrate
- 2 **REABILITA CAL RB** lime-based render
- 3 **ISOVIT LIME** skimming and levelling mortar
- 4 **PAINEL WOOD FIBER** insulation panel
- 5 **ISOVIT BUCHA MADEIRA** mechanical fixing
- 6 **ISOVIT LIME** skimming and levelling mortar with **ISOVIT REDE 160/343** reinforcement mesh
- 7 **ISOVIT LIME** skimming and levelling
- 8 **REABILITA CAL AC** fine sanded finishing mortar

ADVANTAGES

- Excellent thermal and acoustic performance
- Applicable on old substrates or modern construction
- Fine sanded finish
- High vapour permeability
- Lime-based mortar system
- High environmental performance



TECHNICAL INFORMATION

SECIL NATURAL LIME



PHYSICAL PROPERTIES	Secil NHL 2	Secil NHL 3,5	Secil NHL 5
Color	Beige	Beige	Beige
Fineness to 90 μ (%)	≤ 15,0	≤ 15,0	≤ 15,0
Fineness to 200 μ (%)	≤ 2,0	≤ 2,0	≤ 5,0
Setting time (h) - Initial	> 1	> 1	> 1
Setting time (h) - Final	≤ 40	< 30	< 15
Expansion – alternative method (mm)	≤ 2,0	< 2,0	< 2,0
Bulk Density (kg/dm ³)	0,55 ± 0,05	0,65 ± 0,05	0,70 ± 0,05
Free water (%)	≤ 2	≤ 2	≤ 2
MECHANICAL PROPERTIES			
Compressive Strength 2 days (MPa)	-	-	≥ 2,0
Compressive Strength 28 days (MPa)	≥ 2,0 and ≤ 7,0	≥ 3,5 and ≤ 10	≥ 5,0 and ≤ 15
CHEMICAL PROPERTIES			
Sulphate SO ₃ (%)	≤ 2,0	≤ 2,0	≤ 2,0
Free Lime Ca(OH) ₂ (%)	≥ 35,0	≥ 25,0	≥ 15,0
Anhydrite CaSO ₄ (%)	< 1	< 1	< 1
Additions (Waterproofers, plasticisers, water retainers, pozzolans, air entrainers)	0	0	0
OTHER PROPERTIES			
EC Branding	EN 459-1:2011	EN 459-1:2011	EN 459-1:2011
Packaging	20 kg bag	25 kg bag	25 kg bag

**REABILITA
CAL**



	REABILITA CAL CS (Consolidation)	REABILITA CAL RB (Render)	REABILITA CAL AC (Finishing)
FIELD OF USE	Natural Hydraulic Lime-based mortar for the stabilization, reinforcement and homogenization of ancient masonry	Rendering mortar with natural fibers, formulated with Natural Hydraulic Lime. For the filling and leveling in renovation systems on ancient masonry	Finishing mortar formulated with Natural Hydraulic Lime for renovation systems on ancient masonry
PARTICULAR PROPERTIES	Strong adhesion to ancient substrates	Features natural fibers	Allows smooth finishes. Available in three colours (natural, ochre and terracota). Optional painting.
SUBSTRATES	Irregular ancient stone masonry of extensive mortar matrix and low resistance (ordinary), panel and adobe masonry	Substrates prepared with REABILITA CAL CS , ancient stone or brick masonry	REABILITA CAL RB ECOCORK LIME
FIELD OF APPLICATION	Exteriors and Interiors	Exteriors and Interiors	Exteriors and Interiors
CONSTRUCTION TYPE	Renovation	New construction or Renovation	New construction or Renovation
APPLICATION	Manual or mechanical projection	Manual or mechanical projection	Manual
RECOMMENDED THICKNESS	1 to 2 cm (eventually up to 4 cm)	1 to 2 cm per layer	Up to 3 mm
THEORETICAL CONSUMPTION	18 kg/sqm/cm	12 kg/sqm/cm	1,2 kg/sqm/mm
COMPRESSIVE STRENGTH (CLASS)	CS II	CS II	CS II
PERMEABILITY TO VAPOUR	< 15,0 μ	< 5,0 μ	< 5,0 μ
ELASTICITY MODULE	2000 – 4000 N/sqmm	2000 – 4000 N/sqmm	2000 – 4000 N/sqmm
GRAIN SIZE	<4,0 mm	<3,0 mm	<1,0 mm
FIRE RATING	A1	A1	A1
CE MARKING	EN 998-1	EN 998-1	EN 998-1
PACKAGING	25 kg bag	25 kg bag	25 kg bag

**REABILITA
CAL RJ**



	REABILITA CAL RJ
FIELD OF USE	Decorative joint re-pointing
COLOUR	NHL natural colour
SUBSTRATES	Stone masonry
FIELD OF APPLICATION	Exteriors and Interiors
CONSTRUCTION TYPE	New construction or Renovation
APPLICATION	Manual
RECOMMENDED THICKNESS	From 5 mm up to 2 cm per filling layer
THEORETICAL CONSUMPTION	Check product technical data sheet
ELASTICITY MODULE	4000 N/sqmm
REACTION TO FIRE	A1
CE MARKING	EN 998-1
PACKAGING	30 kg bag

**ECOCORK
LIME**



	ECOCORK LIME
FIELD OF USE	Filling and leveling of facades, interior walls and ceilings
SPECIFIC PROPERTIES	Incorporates natural cork aggregates
SUBSTRATES	Substrates prepared with REABILITA CAL CS (Consolidation)
FIELD OF APPLICATION	Exteriors and Interiors
CONSTRUCTION TYPE	New construction or Renovation
APPLICATION	Manual
RECOMMENDED THICKNESS	Up to 2 cm per filling layer
THEORETICAL CONSUMPTION	7,0 kg/sqm/cm
THERMAL CONDUCTIVITY (λ10,DRY)	0,1 W/m.K
CE MARKING	EN 998-1 (Thermal render Class T2)
PACKAGING	14 kg bag

**ISOVIT
LIME**



	ISOVIT FIBRE LIME
FIELD OF USE	Fibre reinforced fixing and levelling mortar for old substrates with high permeability
SPECIFIC PROPERTIES	Formulated exclusively based on Natural Hydraulic Lime
SUBSTRATES	Wood fiber (WFB), black agglomerated cork (ICB) and mineralwool (MW)
FIELD OF APPLICATION	Exteriors and Interiors
CONSTRUCTION TYPE	New construction or renovation
APPLICATION	Manual
RECOMMENDED THICKNESS	4mm (minimum)
THEORETICAL CONSUMPTION	3,0 to 5,0 kg/sqm – fixing 1,2 kg/sqm/mm– levelling
THERMAL CONDUCTIVITY (λ10,DRY)	0,45W/m.°C (P=50%)
CE MARKING	EN 998-1
PACKAGING	20kg bags Pallets of 60 bags

**ISOVIT
E-CORK**



	ISOVIT E-CORK
FIELD OF USE	Fixing, reinforcement and levelling cork panels
SPECIFIC PROPERTIES	Formulated with cork aggregates and Natural Hydraulic Lime (NHL)
SUBSTRATES	Current substrates
FIELD OF APPLICATION	Exteriors and Interiors
CONSTRUCTION TYPE	Renovation
APPLICATION	Manual
RECOMMENDED THICKNESS	4mm (minimum)
THEORETICAL CONSUMPTION	3,5 kg/sqm - fixing 1,1 kg/sqm - levelling
THERMAL CONDUCTIVITY (λ10,DRY)	0,33W/m.°C (P=50%)
CE MARKING	EN 998-1
PACKAGING	20kg bags Pallets of 60 bags

**ISOVIT
REV SP**



	ISOVIT REV SP
FIELD OF USE	Aqueous silicate paint with a matte mineral appearance, available in different colours
SPECIFIC PROPERTIES	Based on potassium silicates, inorganic pigments and selected adjuvants
SUBSTRATES	Hydraulic substrates (plasters and concrete), lime, plaster, among others
FIELD OF APPLICATION	Exteriors and Interiors
CONSTRUCTION TYPE	New construction or renovation
APPLICATION	Manual
RECOMMENDED THICKNESS	Number of coats: 2 to 3
THEORETICAL CONSUMPTION	8 to 10 sqm/l/coat
THERMAL CONDUCTIVITY (λ10,DRY)	-
CE MARKING	-
PACKAGING	ISOVIT AD 25 15 l buckets ISOVIT REV SP 15 l buckets 33 buckets per pallet

TECHNICAL INFORMATION TABLE

THICKNESSES (mm)	THERMAL RESISTANCE (sqm.K/W)
60	1,50
80	2,00
100	2,50
120	3,00
140	3,50
160	4,00
180	4,50
200	5,00

EXPANDED CORK INSULATION PANEL	
DENSITY	Aprox. 110 kg/cbm
THERMAL CONDUCTIVITY	0,040 W/m.K
COMPRESSION STRENGTH AT 10%, DEFORMATION (EN826)	100 kPa
TENSILE STRENGTH PERPENDICULAR TO FACES (EN 1607)	60 kPa (TR50)
DIMENSIONAL STABILITY	Stable: does not expand or contract
DIMENSIONAL TOLERANCE (EN 822)	Between +/- 3 e 5 mm
THICKNESS TOLERANCE (EN 823)	Between +/- 1 e 2 mm
TEMPERATURE	-180 °C to +120 °C
FIRE RATING (EN 13501-1)	Euroclass E
WATER ABSORPTION (EN 1609)	0,36 kg/sqm
RESISTANCE TO VAPOUR DIFFUSION	5-30 μ
CONDUCTIBILITY TO VAPOUR	0,017 a 0,003 g/mh mm section
DURABILITY	Unlimited
CERTIFICATES (EN 13170 + EN 13172)	CSTB (France) e LNEC (Portugal)
DIMENSION OF BOARDS*	1000x500 mm
THICKNESSES	10 a 320 mm

* Also available in groove and tongue

ON SITE BLENDED MORTARS

APPLICATION	BINDER	RATIO	AGGREGATE			COMPRESSIVE STRENGTH (MPa)		ELASTICITY MODULE (MPa) 28 DAYS
			FINE	MEDIUM	COARSE	28 DAYS	90 DAYS	
MASONRY	NHL 5	1:2	-	1	1	2,8	3,7	6900
FLOORING	NHL 5	1:3	-	-	3	2,5	3,6	4500
COATING	NHL 2	1:3	1,5	1,5	-	0,6	0,9	2720
			3	-	-	0,6	0,8	2450
	NHL 3,5	1:4	2	2	-	0,3	0,4	2060
			1	1	1	0,9	1,5	3300
	NHL 5	1:4	1,5	1,5	1	0,5	0,6	1970
			-	1,5	1,5	1	1,7	3300
-	-	2	2	-	0,6	0,8	2170	

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