

REABILITA CAL AC

NATURAL HYDRAULIC LIME BREATHABLE FINISH EXCLUSIVELY FORMULATED FROM NATURAL HYDRAULIC LIME

1. DESCRIPTION

REABILITA CAL AC is a dry mortar, exclusively formulated from Natural Hydraulic Lime, intended for the execution of finishes with an excellent permeability to water vapour in renovation and rehabilitation solutions of old coatings.

It incorporates carefully selected siliceous and calcareous aggregates and additions, having particular properties of thixotropy, vapour permeability and durability particularly adapted to be used in coating rehabilitation systems.

2. FIELD OF USE

REABILITA CAL AC is used as a finish in the maintenance and rehabilitation of buildings, namely when external coatings of old building facades are intended to be recovered, that require high levels of water vapour permeability. The exclusive use of the Natural Hydraulic Lime binder and its special composition results in an excellent physical-chemical behaviour and mechanical performance in connection with the diverse materials constituting this type of substrates.

REABILITA CAL AC is a fine render that allows fine sanding finishes to be obtained over replacement renders such as **REABILITA CAL RB** or **REABILITA RA 01** or over mortars for the treatment of uprising damp and salts **REABILITA CAL MP** or **REABILITA RA 05**.

REABILITA CAL AC may be used on old renders provided that they have adequate physical and mechanical preservation conditions.

REABILITA CAL AC is also an integral part of the ETICS system, **ISOVIT CORK**, a external thermal insulation composite system based on natural hydraulic lime and cork panels with an ETA. It may also be applied to other coating systems, namely **ECOCORK RENDER** and **ECOCORK LIME**.

Since these are specific situations in each rehabilitation work, our Technical Services should be consulted at the time of product selection.

3. PRODUCT CHARACTERISTICS

Powdered product	Value
Colour	Natural, White, Sand, Yellow, Dark yellow, Pink, Antique rose, Salmon, Brick, Blue, Dark blue, Mint, Light grey and Grey
Granulometry	< 1,0 mm
Paste product	Value
Mixing water	20,0 ± 1,0 %
Theoretical consumption	1,20 kg/m ² /mm

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Hardened Product	Value	Standard
Compressive strength	Class CS II	EN 1015-11
Adhesion to brick and block / Mode of fracture	$\geq 0,2 \text{ MPa} / B$	EN 1015-12
Modulus of elasticity	2 GPa	BS 1881-5
Density	$1250 \pm 150 \text{ kg/m}^3$	EN 1015-10
Capillarity (24h)	$\geq 0,3 \text{ kg/m}^2$	EN 1015-18
Permeability to water vapour	$\mu \leq 20$	EN 1015-19
Water penetration after capillarity test	$< 5,0 \text{ mm}$	EN 1015-18
Reaction to fire	Class A1	EN 988-1
Thermal conductivity	$0,45 \text{ W/(m.K)} (P=50\%)$	NP EN 1745

4. APPLICATION

a) Substrate preparation

Substrates prepared with *REABILITA CAL RB*, *REABILITA RA 01*, *REABILITA CAL HP*, *REABILITA RA 05*, *ecoCORK RENDER*, *ecoCORK Lime One* mortars and other filling and levelling renders of SECILTEK range are able to receive *REABILITA CAL AC*.

External thermal insulation systems of the *ISOVIT CORK* type are also able to receive this finish mortar.

In the case of direct application on other kind of renders, these should be regular, cohesive, clean and without any type of material that affects the normal adhesion conditions.



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b) Mortar preparation

REABILITA CAL AC should be mixed with water in the proportion of 4,5 to 5,0 litres per 25 kg bag, in small quantities and using an electric mixer, so as to obtain a uniform and lump-free paste.

Strict control of the mixing water is fundamental and decisive to ensure uniformity of mortar mix.

c) Application

After mixing, **REABILITA CAL AC** should be applied in two layers, at least.

Total coating thickness should not exceed 3 mm.

Whenever possible, complete panels should be done so as to minimize work joints. In this operation, each panel should be covered under the same temperature, sunlight, wind and humidity conditions, at the risk of, in case of variation in drying, final colour variations occurring.

The final surface of **REABILITA CAL AC** should be trowelled and a fine sanded finish or a rustic smooth finish may be obtained. It may also be used as a base to receive smooth finishes such as **REABILITA CAL AC Fino**.

When repairing renders or in rehabilitation works that require the execution of large thicknesses, incorporation of glass fibre mesh with anti-alkali treatment, **ISOVIT REDE 160**, should be provided for, over the first layer of **REABILITA CAL AC** while still fresh.

The painting scheme to be carried out should be applied 14 days after and it should be of silicate base or aqueous base with good water vapour permeability. If **REABILITA CAL AC** is applied as final finish to colour, it is advisable to apply the **B-REPARA PROTEÇÃO AD 40** water-repellent impregnation for greater durability of the final appearance.

d) Restrictions

REABILITA CAL AC should not be applied at room and substrate temperatures below 5 °C and above 30 °C. It has a curing period of 28 days.

In hot and/or dry weather or when substrates are directly exposed to sunlight, the substrate should be previously wetted and application should only be started when it is dry.

Under these conditions daily watering of the surfaces should be carried out, for one week, so as to keep renders permanently moist.

Application in the presence of strong winds may cause render cracking. In such case, walls should be protected so as to minimize the effects of wind action.

5. PACKAGING AND VALIDITY

Packaging

25 kg paper bags in plasticized pallets of 60 bags.

Validity

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



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6. HEALTH AND SAFETY

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

- Irritating to eyes, respiratory system and skin;
- May cause sensitization in contact with skin;
- Do not breathe dust;
- Avoid contact with skin and eyes;
- If it comes in contact with eyes, rinse immediately and thoroughly with water and seek a specialist advice;
- Use protective clothing and appropriate gloves;
- Keep out of children's reach.

	REABILITA CAL AC EN 998-1 Renovation (R) mortar for indoor and outdoor coatings Declaration of performance DOP.03003
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Being the 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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