

TECHNICAL DATA SHEET

REABILITA CAL CS

NATURAL HYDRAULIC LIME CONSOLIDATION MORTAR FOR OLD MASONRIES

1. DESCRIPTION

REABILITA CAL CS is a dry mortar, exclusively formulated from Natural Hydraulic Lime. It incorporates carefully selected siliceous and calcareous aggregates and additions.

It is intended for the consolidation and stabilization of old friable substrates and regulation of water absorption before the application of the new coating. It has particular properties of thixotropy, adhesion, chemical resistance and durability particularly adapted to the intended purpose.

It is a product intended for manual application.

2. FIELD OF USE

REABILITA CAL CS is used over old masonry surfaces in renovation systems as consolidation layer for substrate stabilization and homogenization. Alternatively, it may also be used when roughcast is needed on low absorption substrates and/ or needing water absorption regulation.

The exclusive use of the Natural Hydraulic Lime binder and its special composition results in an excellent compatibility with the old substrates, where not only the physical and mechanical compatibility stands out but also the high chemical compatibility.

3. PRODUCT CHARACTERISTICS

Powdered product	Value	Standard
Granulometry	< 3,5 mm	-
Paste product	Value	Standard
Mixing water	14,0 ± 1,0 %(CONSOLIDATION)	-
Theoretical consumption	18,0 kg/m ² /cm	-
Hardened Product	Value	Standard
Compressive strength	Class CS II	EN 1015-11
Adhesion to brick and block / Mode of fracture	≥ 0,2 MPa / B	EN 1015-12
Modulus of elasticity	5 GPa	BS 1881-5

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Density	1850 ± 150 kg/m ³	EN 1015-10
Capillarity	W _c 0	EN 1015-18
Permeability to water vapour	≤ μ 35	EN 1015-19
Reaction to fire	Class A1	EN 988-1
Thermal conductivity	1,11 W/(m.K) (P=50%)	NP EN 1745

4. APPLICATION

a) Substrate preparation

First of all, complete removal of old renders should be carried out leaving the wall clear. The most appropriate removal methodologies should be used so as not to damage the existing wall.

After removal, the substrate must be cleaned, brushing the stone and / or ceramic elements with wire brush in order to obtain a good adhesion surface for the new mortars.

b) Mortar preparation

REABILITA CAL CS should be mixed in a continuous product mixing equipment.

In machines with automatic water dosing, adjust the minimum water flow to allow good workability.

In machines without automatic water dosing, mix **REABILITA CAL CS**, in the proportion of 3,0 to 3,5 litres of water per 25-kg bag to obtain the appropriate consistency for consolidation and levelling.

c) Application

After mixing, **REABILITA CAL CS** should be applied manually with a trowel pressing on the substrate in order to promote a good adhesion to it.

d) Consolidation and levelling

REABILITA CAL CS should be applied so as to fill cavities and any masonry imperfections. This mortar layer is not intended to have a levelling function and so, the contours of masonry elements may be seen at this stage.

While this mortar layer is fresh, a square-mesh glass fibre should be incorporated, with about 40x40 mm apertures, with anti-alkali treatment, being embedded in the mortar by using the back of the trowel.

If needed, an initial filling of masonry cavities should be carried out with tile fragments involved in **REABILITA CAL CS** or stone portions similar to the masonry type resulting from grinding.

Seeing that there are specific situations in each rehabilitation work, our Technical Services should be consulted when selecting products.



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After applying *REABILITA CAL CS*, a 4-day minimum waiting time should be considered prior to the application of *REABILITA CAL RB* or another compatible coating.

e) Restrictions

REABILITA CAL CS should not be applied at room and substrate temperatures below 5 °C and above 30 °C. It has a curing time 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.

f) Complementary Advices

- The mixing water should be free of any impurities (clays, organic matter) and drinking water should be preferably used;
- No mortar that has exceeded its open time should be applied. Do not soften mortars by adding water after preparation.
- Do not add any other products to the mortar. *REABILITA CAL CS* should be applied as it is shown in its original packaging.

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 CS EN 998-1 General purpose (GP) render mortar for indoor and outdoor application. Declaration of performance DOP.03001
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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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