

REABILITA CAL RJ

NATURAL HYDRAULIC LIME REPOINTING MORTAR FOR OLD MASONRY

1. DESCRIPTION

REABILITA CAL RJ is a dry mortar, formulated from exclusive binders based on Natural Hydraulic Lime, carefully selected siliceous and calcareous aggregates and additions, intended for the repointing of old masonry. It has particular properties of adhesion and durability especially adapted to the intended purpose.

2. FIELD OF USE

REABILITA CAL RJ is used in restoration and aesthetic rehabilitation of visible old masonry when it is intended to respect the original aspect of that constructive element, by filling the joints between the elements. Its physical-chemical characterization enables it to perform optimally in terms of adherence to the various types of stone elements that constitute the substrates of this nature.

REABILITA CAL RJ is a mortar whose application implies its direct exposure to rainfall water, reason why, its composition includes additions of specific agents to improve its water-repellent properties, ensuring breathability of the wall.

3. PRODUCT CHARACTERISTICS

Powdered product	Value	Standard
Granulometry	< 2,0 mm	-
Paste product	Value	
Mixing water	18,5 ± 1,0 %	-
Hardened Product	Value	Standard
Compressive strength	Class CS I	EN 1015-11
Adhesion to brick and block / Mode of fracture	≥ 0,2 MPa / B	EN 1015-12
Modulus of elasticity	2 GPa	BS 1881-5
Density	1650 ± 150 kg/m ³	EN 1015-10

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Capillarity	Class W2	EN 1015-18
Capillarity (24 hours)	$\geq 0,3 \text{ kg/m}^2$	
Permeability to water vapour	$\mu \leq 35$	EN 1015-19
Reaction to fire	Class A1	EN 988-1
Thermal conductivity	$0,82 \text{ W/(m.K)} (P=50\%)$	NP EN 1745

4. APPLICATION

a) Substrate preparation

First of all, complete removal of the joint mortar of masonry to be rehabilitated should be carried out. The most appropriate removal methodologies should be used so as not to damage the existing wall.

Brush cleaning of the stone and / or ceramic elements with a wire brush should be carried out in order to obtain a good adhesion surface, eliminating the disaggregated materials or that could affect the adhesion of the new mortar.

b) Mortar preparation

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

In machines without automatic dosing of water, mix *REABILITA CAL RJ* in the proportion of 4,0 to 4,5 litres of water per 25 kg bag.

In machines with automatic dosing of water, adjust the minimum water flow that allows good workability.

c) Application

After mixing, *REABILITA CAL RJ* should be applied manually, in order to properly fill voids in the joints between the various elements of the masonry to be treated with a minimum joint thickness/depth of 5 mm and a maximum thickness/depth of 2 cm.

For joint filling with more than 2cm depth, work should be carried out in two stages, where the first layer of filling should be done with *REABILITA CAL CS* and then we must let this first layer of mortar have enough consistency to apply the finish. If needed, i.e. for large joint fills, during the first filling, small stone pieces involved with the mortar may be used.

For an additional surface protection after 28 days, application of *B-REPARA PROTEÇÃO AD 40* is recommended.

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

d) Restrictions

REABILITA CAL RJ 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.

e) 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 RJ* 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.

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.

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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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