

# REABILITA CAL MP

NATURAL HYDRAULIC LIME MACRO-POROUS SALT ACCUMULATION MORTAR

## 1. DESCRIPTION

*REABILITA CAL MP* is a dry mortar, exclusively formulated from Natural Hydraulic Lime. It incorporates carefully selected siliceous and calcareous aggregates and additions, having particular properties of thixotropy, adhesion, chemical resistance, permeability to water vapour and durability particularly adapted to the execution of dehumidified renders indoors and outdoors.

*REABILITA CAL MP* is intended for projected application but it may be applied manually.

## 2. FIELD OF USE

*REABILITA CAL MP* is a macro-porous mortar with high permeability to water vapour, for the treatment of old masonry walls having uprising damp and hygroscopic salts. It was specially designed for the maintenance and rehabilitation of buildings, and it is intended for the covering of old masonry.

*REABILITA CAL MP* may be applied on ceramic brick or stone masonry.

The exclusive use of the Natural Hydraulic Lime binder and its special composition results in excellent compatibility with old substrates, where in addition to the physical and mechanical compatibility, the high chemical compatibility stands out.

## 3. PRODUCT CHARACTERISTICS

Powdered product	Value	Standard
Granulometry	< 3,5 mm	-
Paste product	Value	Standard
Mixing water	19 ± 1,0 %	-
Theoretical consumption	12,0 kg/m <sup>2</sup> /cm	-
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

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Modulus of elasticity	2150-2550 N/mm <sup>2</sup>	BS 1881-5
Density	1350 ± 150 kg/m <sup>3</sup>	EN 1015-10
Permeability to water vapour $\mu$	≤ 15	EN 1015-19
Water penetration after capillarity test	< 5,0 mm	EN 1015-18
Reaction to fire	Class A1	EN 988-1
Thermal conductivity	0,45 W/(m.K) (P=50%)	NP EN 1745

## 4. APPLICATION

### a) Substrate preparation

First of all, complete removal of the old render should be carried out leaving the wall bare, providing for its ventilation. At this stage it is essential to remove all the plasters affected by uprising damp and salts in the whole panel or at least up to 50 cm above the degraded area. The most appropriate removal methodologies should be used so as not to damage the existing wall.

The entire area to be repaired should be brushed, removing disaggregated materials, salts and dust and removing the presence of microorganisms such as lichens and mosses.

In case of irregular masonry, before render application, fill irregularities with **REABILITA CAL MP** and leave to dry.

### b) Mortar preparation

**REABILITA CAL MP** should be mixed in projection equipment with pre-mixing of the product.

In machines without automatic dosing of water, mix **REABILITA CAL MP** in the proportion of 4,5 to 5,0 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

Apply **REABILITA CAL MP** manually or by projection according to standard render application techniques.

**REABILITA CAL MP** should be applied in a thickness between 2 and 3 cm, to ensure a generous salt accumulation thickness. Never apply in thicknesses of less than 1 cm.

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When applying **REABILITA CAL MP** reinforcements in traction areas should be made, especially in the transition between different materials of the substrate, blind's spaces, corners, angles of openings and thin panels, with the **ISOVIT REDE 115** glass fibre mesh.

For better results, walls should be treated on both sides.

Once **REABILITA CAL MP** render is finished, level the final surface with the current trowel process, thus preparing the surface to receive the finish.

**REABILITA CAL MP** is not in itself a finish for walls, and so it should be carried out according to the desired texture, with the corresponding product, such as **REABILITA CAL AC**.

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

## d) Restrictions

**REABILITA CAL MP** 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 MP** 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.

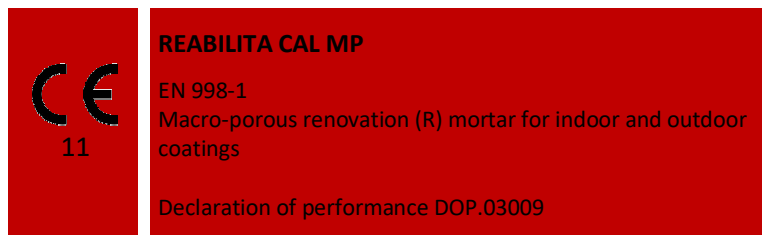
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## 6. HEALTH AND SAFETY

(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.



*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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