

REABILITA RA 05

MACRO-POROUS MORTAR FOR ACCUMULATION OF SALTS

TC.E.080.2 EN

1. DESCRIPTION

REABILITA RA 05 is a dry mortar, formulated from hydraulic binders, siliceous and calcareous aggregates and additives, suited for the execution of internal and external renders.

REABILITA RA 05 is suited for sprayed application, but it can be applied manually.

2. FIELD OF USE

REABILITA RA 05 is a macro-porous mortar of high permeability to water vapor for treatment of walls with humidity and hygroscopic salts.

Due to its macro-porous structure, it dehumidifies the substrate and enables the accumulation of salts within its structure, increasing durability of coatings with this pathology.

REABILITA RA 05 can be applied directly on masonry substrates of old stone, ceramic block, cement block and concrete.

In applications on old substrates or building rehabilitation operations, special cautions should be taken for which we recommend to previously consult our Technical Services.

3. PRODUCT CHARACTERISTICS

POWDERED PRODUCT	VALUE	STANDARD
Granulometry	< 2,0 mm	-

PASTE PRODUCT	VALUE	STANDARD
Mixing water	19,5 ± 0,5 %	-
Theoretical consumption	15,0 kg/m ² /cm	-

HARDENED PRODUCT	VALUE	STANDARD
Compressive strength	Class CS IV	EN 1015-11
Adhesion to brick and block / Modulus of fracture	≥ 0,2 MPa / A and B	EN 1015-12
Modulus of elasticity	9000-12000 N/mm ²	BS 1881-5
Density	1500 ± 100 kg/m ³	EN 1015-10
Capillarity	Class W2	EN 1015-18
Permeability to water vapor μ	5	EN 1015-19
Reaction to fire	Class A1	EN 988-1
Thermal conductivity	0,47 W.(m/K) (P=50%)	NP EN 1745

4. APPLICATION

Preparation of substrates

Substrates must be wet, coherent and clean. Remove all non-adherent renders and paintings. Brush all area removing disaggregate materials, salt and dust. Remove microorganisms such as lichens and mosses.

In repairing renders degraded by rising damp and hygroscopic salts, it is necessary to eliminate all affected renders up to, at least, 50cm above the degraded area.

In case of irregular masonry, fill the irregularities before render application with **REABILITA RA 05** and leave to dry.

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Preparation of mortar

REABILITA RA 05 should be mixed with spraying equipment with pre-mixing of the product.

In equipment without automatic water dosing, mix **REABILITA RA 05**, in the proportion of 5,5 to 6,0 liters of water per each bag of 30 kg.

In equipment with automatic water dosing, adjust to the minimum water flow to get a good workability.

Application

Apply manually or by spraying **REABILITA RA 05** according to the standard techniques of render application.

REABILITA RA 05 should be applied with a thickness between 2 and 3 cm, to guarantee a generous thickness of salt accumulation. Do not ever apply on thicknesses below 1cm.

If it is necessary to make successive leveling layers (total thicknesses larger than 3cm), these must be duly reinforced with metallic or glass fiber nets. The net application should be done within the mortar in two steps and ensuring that, in this process, the mortar remains workable.

During the application of **REABILITA RA 05** reinforce the renders in traction areas, especially in the transition between different substrate materials, blinds' boxes, wall-corners, angles of windows and in slender panels, with glass fiber net, with anti-alkaline treatment, with the adequate section and mesh.

For better results, whenever possible, proceed with treating the walls on both sides.

After finalizing the render **REABILITA RA 05**, level the final surface with the regular trowelling process thus

preparing the surface to receive finish. **REABILITA RA 05** is not a finish for walls, therefore it should be done according to the texture needed, with the corresponding product, such as **REABILITA Cal Acabamento** or **REABILITA RR 20**.

Because there are specific situations in each work of rehabilitation, we advise the consultation of our Technical Services prior to the selection of the products.

Restrictions

REABILITA RA 05 should not be applied in room and substrate temperature below 5°C and above 30°C. It has a curing time of 28 days.

In hot and/or dry weather, or in case of substrates exposed to the direct action of solar rays, previously wet the substrate beginning the application when it looks dry.

In these conditions, proceed with daily watering of the executed surfaces, for one week, to keep the renders permanently wet.

In the presence of strong wind, the application may cause cracking in the render. In this case, protect the walls to minimize the effects of the wind.

Further advice

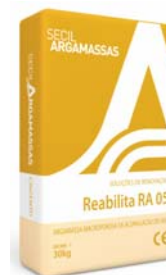
- ▶ The mixing water should be free of any impurities (clay, organic matter), and preferably drinkable;
- ▶ Do not apply any mortar that has exceeded its open time. Do not weaken the mortars by adding water, after preparation;
- ▶ Do not add any other products to **REABILITA RA 05**. It should be

applied as it is presented in its original packaging.

5. PACKAGING AND VALIDITY

Packaging

Paper bags of 30 kg in plasticized pallets with 54 bags;



Validity

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

6. RELATED PRODUCTS

- ▶ **REABILITA RR 20**
(Mortar for finishing for repairing renders)
- ▶ **REABILITA Cal Acabamento**
(Breathable mortar for finishing)
- ▶ **Line of products REABILITA**
(Products for rehabilitation/renovation)

7. HEALTH AND SAFETY

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

- ▶ Irritating to eyes, respiratory system and skin;

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- ▶ May cause sensitization by skin contact;
- ▶ Do not breathe dust;
- ▶ Avoid contact with eyes and skin;
- ▶ In case of contact with eyes, rinse immediately and abundantly with water and seek medical advice;
- ▶ Wear protective clothing and appropriate gloves;
- ▶ Keep out of children's reach.

Being in 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.

*Review of August 2013
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REABILITA RA 05

EN 998-1:2010

Mortar for render of general use (GP) for internal and external coatings

Declaration of performance TC.E.0980