

ADHERE CAL

HIGH ABSORPTION ANTIQUE TILE MASONRY MORTAR

1. DESCRIPTION

ADHERE CAL is a pre-dosed mortar, formulated exclusively with Natural Hydraulic Lime (NHL) siliceous aggregates and additives, especially developed for the laying and grouting of traditional tiles in restoration works.

ADHERE CAL is marketed in beige, resulting from the natural colour of Natural Hydraulic Lime (NHL).

2. FIELD OF USE

ADHERE CAL was specially developed for laying traditional tile works, respecting the particular characteristics of this art and still ensuring maximum compatibility with the original materials in restoration works.

ADHERE CAL is preferably applied over lime-based mortars, e.g. substrates treated with **REABILITA CAL RB**, **REABILITA RA 01** and **ECOCORK LIME**

ADHERE CAL is appropriate for laying and grouting traditional tiles with high absorption (Porosity: E> 10%) on interior and exterior walls.

ADHERE CAL is suitable for whole repairs of tile coverings or spot repairs to areas with detached parts from the substrate.

For non-common uses or on particular substrates, we advise you to contact our Technical Service.

3. PRODUCT CHARACTERISTICS

Powdered product	Value	Standard
Colour	Beige	-
Granulometry	< 1,0 mm	-
Paste product	Value	Standard
Mixing water	27,0 % - 29,0 %	-

4. APPLICATION

a) Substrate preparation

Evaluation of the substrate is critical before applying the laying scheme, with special attention to adhesion, cohesion, stability and levelling. It must be free of dirt, dust, paint, loose or unstable materials, degraded mortar, efflorescence, organic matter, or any other material lessening the adhesion conditions.

In restoration works, the adhesion of existing tiles must be checked with a percussion test and removal of those that are unstable.

If tiles are removed, a dry cleaning should be performed by brushing or air jet with moderate pressure, removing impurities or any substances that reduce the adhesion of the new mortar.

Plastering areas not showing proper conditions for cohesion, adhesion and resistance must be removed in their entirety and subsequently levelled with **REABILITA CAL RB** and **REABILITA CAL CS**.

In weather too dry and hot or on very absorbent substrates, substrates should be watered before application so as to control absorption and wetting, without leaving liquid water on the surface.

Final surfaces must be obtained by trowelling without the use of water in this procedure, or risk possible fragility of the surface.

b) Mixture preparation

ADHERE CAL should be mixed with 6.75 to 7.25 litres of clean water (preferably potable) for each 25 kg bag, with a low speed electric mixer, until a homogeneous and lump-free paste is obtained.

Allow the mixture to sit for 5 min and mix again without adding water or more product.

c) Application - Laying

Ceramics must be previously moistened with water to avoid drying the mortar.

Apply the mortar obtained with the aid of a stainless steel spoon on the wall and on the back of the tile, double bonding, to ensure that the entire surface is filled, with no voids. The tile must be brought into position by means of a rubber mallet.

Execute the laying in small areas, adequate for the atmospheric temperature and humidity conditions.

Periodically checking the efficacy of the laying technique is recommended, by removing a piece already bonded so as to verify that the back of the piece and the substrate are correctly filled with mortar.

Do not proceed with the laying when the open time is exceeded, which is confirmed by the presence of a film of different shade that appears on the surface of the mortar.

d) Application – Filling of joints

The **ADHERE CAL** mortar is applied with a rubber trowel, stretching the paste in the diagonal of the pieces and using the mortar itself for this purpose.

Press the trowel in order to completely fill the joint and remove the surplus. Excess mortar should be cleaned with a cleaning trowel or a slightly damp sponge, always using clean water.

Once the product is completely dry, clean with a damp sponge and then remove the surplus powder with a dry cloth.

e) Consumption

Theoretical consumption	Laying method
Notched trowel no. 6	Double bonding
	5,0 to 6,0 kg/m ²

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a) Restrictions

ADHERE CAL should never be applied in isolated portions, but covering the entire substrate and the back of the ceramic tile to be bonded.

Do not apply **ADHERE CAL** over paint or varnish.

ADHERE CAL should not be applied with a relative humidity above 70% or when the ambient temperature and/or the substrate is below 5°C or above 30°C. Bonding or grouting should not be done outdoors with adverse weather conditions such as rain, strong winds or intense sunlight, during or within 24 hours after application.

In cases of exposure to wind, the facades must be protected in order to minimize its influence.

b) Complementary Advices

- The mixing water must be free of any impurities (clays, organic matter, etc.) and drinking water should be preferably used;
- No mortar that has started its open time should be applied. Do not soften mortars by adding water after preparation;
- Do not add any other products to the mortar. **ADHERE CAL** 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)

- Causes skin irritation;
- Causes serious eye damage;
- May irritate the respiratory system;
- If it is necessary to see a doctor, show him the package or the label;
- Keep out of children's reach;
- Wash thoroughly after handling;
- Use protective gloves / protective clothing / eye protection / face protection;

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- Dispose of the contents and / or the container by means of the selective collection system used in your municipality.

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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