

ADHERE CAL

NHL FIXING MORTAR FOR LAYING HIGH ABSORPTION TILES

1. DESCRIPTION

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

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

2. FIELD OF USE

ADHERE CAL is specially developed for the laying of traditional tiles, respecting the particular characteristics of this craft and also guaranteeing maximum compatibility with the original materials in restoration works.

ADHERE CAL is preferably applied onto lime-based mortars, for example, substrates as **REABILITA CAL RB**, **REABILITA RA 01**, **REABILITA CAL SCREED** and **ECOCORK LIME**.

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

ADHERE CAL is suitable for total repairs to tile coating or for spot repairs to areas with detachment areas from the substrate.

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

3. PRODUCT CHARACTERISTICS

Powdered product	Value	Standard
Colour	Beige	-
Granulometry	< 1,0 mm	-
Paste product	Value	Standard
Mixing water	28,0 % ± 1,0 %	-

4. APPLICATION

a) Substrate preparation

Before applying the product it is crucial that the substrate is examined with special attention to adhesion, cohesion, stability and performance. It should be free of dirt, dust, paint, loose or unstable materials, degraded mortars, efflorescence, organic matter, or any other material that causes a decrease in adhesion conditions.

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

If there is a removal of tiles, a dry cleaning by brushing or by moderate pressure air jet should be carried out, removing impurities or any substances that may reduce adhesion of the new mortar.

Render areas that do not show suitable cohesion, adhesion and resistance conditions should be totally removed and then levelled with **REABILITA CAL CS** and **REABILITA CAL RB**.

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

Final surfaces should be obtained by trowelling and not using any water in this procedure, or else the surface may be weakened.

b) Mixture preparation

ADHERE CAL should be mixed with 6,5 to 7,0 litres of clean water (preferably potable) per 25-kg bag with low-speed electric mixer until a smooth, lump-free paste is obtained.

Leave the mixture to rest for 5 minutes and mix again without adding water or additional product.

c) Application – Laying Tiles

Tiles should be previously moistened in water so as to avoid mortar dissection.

Apply the mortar obtained by using a stainless-steel trowel on the wall and on the back of the tile, double adhesion, to ensure that the entire surface is filled, without voids. The tile should be brought into position by using a rubber hammer.

Laying should be carried out in small areas, suitable for atmospheric temperature and humidity conditions.

It is recommended to periodically check the effectiveness of the laying technique by removing an already bonded piece, in order to check if the back of the piece and the substrate are correctly filled with mortar.

Do not lay any pieces when the open time is over, which may be confirmed if a different tone film shows on the mortar surface.

d) Application – Joint grouting

ADHERE CAL mortar is applied with a rubber trowel, laying the material diagonally towards the pieces and using the mortar itself for that purpose.

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

Once the product is completely dry, make a general cleaning with a damp sponge and then remove the excess powder with a dry cloth.

e) Consumption

Theoretical consumption	Laying Method
	Double bonding
No. 6 notched trowel	5,0 to 6,0 kg/m ²

f) Restrictions

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

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

ADHERE CAL should not be applied at a relative humidity of more than 70% or when room and/or substrate temperature is below 5° C or above 30° C. No bonding or grouting should be carried out outdoors in adverse weather conditions, such as rain, strong winds, or intense sunlight, during or within 24 hours of application.

In cases of wind exposure, facades should be protected in order to minimize its action.

g) Complementary Advices

- The mixing water must be free of any impurities (clays, organic matter), and it should be potable;
- 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.

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6. HEALTH AND SAFETY

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

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