ADHERE Cal

NATURAL HYDRAULIC LIME ADHESION MORTAR

1. DESCRIPTION

ADHERE Cal is a premixed mortar for laying tiles, formulated exclusively from Natural Hydraulic Lime (NHL), siliceous aggregates and additives.

ADHERE Cal adhesion mortar is available in beige.

2. AREA OF USE

ADHERE Cal is especially designed for laying and grouting tiles or tile work with high absorption (> 10%, type AIII and BIII according to standard EN 14411) in preservation, renovation and restoration of old building jobs, as well as contemporary buildings, if applicable. Suitable for laying small pieces with high absorption (maximum recommended format 400 cm² [20 cm x 20 cm]), on interior and exterior walls.

ADHERE Cal is applied preferably over lime-based mortars, for example substrates treated with ***REABILITA Cal Reboco***, ***REABILITA RA 01 and Secil ecoCORK lime,*** in masonry substrates in stone, adobe and partition.

ADHERE Cal is suitable for total repairs of tile coating or for small repairs of areas using existing pieces.

For non-current uses or on particular substrates, we advise contacting our Technical Service.

3. PRODUCT CHARACTERISTICS

POWDERED PRODUCT	VALUE	STANDARD
Colour	Beige	-
Granulometry	< 1.0 mm	-

PASTE PRODUCT	VALUE	STANDARD
Mixing water	28.0 ± 1.0%	-
Density	1400 ± 100 kg/m^3	EN 1015-2
Theoretical consumption	5.0 to 6.0 kg/m^2	-

HARDENED PRODUCT	VALUE	STANDARD
Initial adhesion	≥ 0.2 N/mm^2	EN 12004
Adhesion after open time (20 min.)	≥ 0.1 N/mm^2	EN 1346
Adhesion after immersion in water	≥ 0.2 N/mm^2	EN 1348
Adhesion after heat	≥ 0.1 N/mm2	EN 1348
Capillarity coefficient (class)	W1	EN 1015-18
Compressive strength (7 days) (28 days)	0.7 MPa 6.8 MPa	EN 1015-11
Flexural Strength (7 days) (28 days)	0.3 MPa 3.3 MPa	EN 1015-11
Density	1400 ± 100 kg/m^3	EN 1015-10
Modulus of elasticity	4650 MPa	BS 1881-5
Reaction to fire	A1	EN 998:1

4. APPLICATION

Preparation of substrates

Substrates must be cohesive, adhesive and free of dust, gypsum, paints, disaggregate or unstable particles, efflorescence, as well as any other material that affects the normal adhesion conditions.

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The substrates should appear regular and levelled, with all cavities and open areas filled to achieve an uniform level.

After cleaning, the substrate should be dampened with clean water on the day prior to application.

Ensure the execution of expansion joints on the perimeter of the area to be bonded, as well as the connection with the vertical elements or other fixed devices. Remove all metal elements in the substrate.

Proceed with joint marking. This is especially important when the original tiles show dimensional variations.

Preparation of mixture

ADHERE Cal should be mixed with 6.5 to 7 litres of clean water (preferable potable) for each 25 kg bag, with a low speed electrical mixer, until a soft past free of lumps is obtained.

Let the mixture rest for 2 minutes and mix again without adding water nor more product.

Application – Bonding

Tiles should be previously dampened in water, to avoid quick drying of the mortar.

Apply the mortar on the substrate with a stainless steel notched trowel and on the back of the tile to ensure that the surface is filled (no empty spaces). The tile should be placed in position with a rubber hammer.

Do the work in small areas, suitable to conditions of temperature and atmospheric humidity. Control the adhesion by periodically removing a piece that is already bonded, to see whether the back of the piece and the substrate are correctly filled with mortar.

Do not proceed with the work when you observe that the open time has expired, which is confirmed by the appearance of a film of a different shade on the surface of the mortar.

Application – Grouting

ADHERE Cal mortar is applied with a rubber trowel, spreading the mortar in a direction diagonal to the pieces.

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

As soon as the product is completely dry, do a general cleaning with a damp sponge and then eliminate the excess dust with a dry cloth.

Restrictions

ADHERE Cal should never be applied on isolated portions, but should cover all of the substrate and the back of the ceramic to be bonded.

Do not apply ***ADHERE Cal*** over paint or varnishes.

ADHERE Cal should not be applied in room and substrate temperature below 5°C and above 30°C.

Additional advice

- The mixing water should be free of any impurities (clay, organic matter), and preferably potable;
- Do not apply any mortar that expired its open time. Do not weaken the mortars by adding water, after preparation;
- Do not add any other products to the mortar. ***ADHERE Cal*** should be applied as it is presented in its original packaging.

5. PACKAGING AND VALIDITY

Packaging

25kg paper bags in 60-bag plastecized pallets.

Validity

12 months if packaging remains unopened and stored away from extreme temperatures and humidity.

6. ASSOCIATED PRODUCTS

- **Range of products REABILITA**
  (Products for restoration/renovation)
- **Secil ecoCORK Lime**
  (Natural hydraulic lime and cork thermal render)

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7. HEALTH AND SAFETY

(DOES NOT SUBSTITUTE PRODUCT SAFETY DATA SHEET)

- Causes skin irritation;
- Causes serious eye injuries;
- May cause irritation of the respiratory tract
- If you need to see a doctor, show him the packaging or label.
- Keep out of reach of children;
- Wash carefully after handling;
- Use protective gloves, clothing, eye protection, face protection;
- Eliminate the contents and/or the receptacle through a system of selective collection in use in your municipality.

As the application of our products is beyond our control, we are not responsible for their misuse. It is the customer's duty to check the suitability of the product for its intended purpose. In any event, our responsibility is limited to the value of the goods supplied by us. The information on this sheet may change without notice. If you have any queries and require further clarification, please contact our technical services.

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Adhere Cal

EN 998-1:2010

General purpose plaster mortar (GP) for coatings.

Declaration of performance TC.E.0828

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