AE
BASE COAT RENDER

1 \ ABOUT THIS PRODUCT

AE is a dry mix mortar, designed for manual application. This Dry Mortar is factory produced from carefully selected raw materials, thus assuring constancy and quality. It only requires the addition of water on site.

2 \ SUITABILITY

AE is a Base coat render, for filling and repairing old walls, suitable for renovation and restoration work, both indoors and outdoors. For more details see our Guide: "Repair of old masonry, brick, sand and lime walls," or contact us.

3 \ PACKAGING

AE is supplied on 25 kg bags

4 \ STORAGE AND SHELF LIFE

AE must be kept on its bag until usage. When stored unopened in a dry place at temperatures above 5°C, and sheltered from direct sunlight, shelf life is 12 months from date of manufacture.

5 \ TECHNICAL DATA

Powder bulk density	1500 ± 200 kg/m^3
Consistency (Flow table)	160 ± 5 mm
Workable Life	60 min
Fresh mortar bulk density	1850 ± 200 kg/m^3
Compressive Strength (28 days)	≥ 6 N/mm^2
Adhesive Strength over concrete (28 days)	≥ 0,1 N/mm^2 – FP:B
Capillary water absorption (28 days)	≤ 0,40 kg/m^{2}min$^{0.5}$
Water vapour Permeability	μ ≤ 15
Thermal Conductivity ($\lambda_{10,dry}$)	0,5 W/mK (Tabulated A.V.; P=50%)
Yield	15 ± 1 kg/m^{2}cm thick

These results were obtained in controlled laboratory conditions in observance of the EN 998-1:2010 European Standard.

6 \ PREPARATION AND APPLICATION

6.1 \ Substrate preparation

• Remove all loose and/or damaged material from the old wall;
• All surfaces must be sound, clean, suitably dry and free of any material which may impair adhesion;
• The substrate or the brick shall be moist, but not wet, previous to mortar application;

6.2 \ Application

The rendering of any particular wall must be applied and finished in the same day.
Add and thoroughly mix 4 litres of water to each 25 kg bag. If you're using a continuous screw mixer, then adjust the water to the minimum flow necessary to achieve the required workability.
Once mixed, this dry mortar shall be applied in the same fashion as traditional site-made mortars. When the render is green (set but not fully hardened) it should be repressed, using a flat ruler, from bottom to top, in order to prevent any sagging of the surface.

The mortar must be applied within 1 hour of mixing, and no further water may be added

7\ GOOD PRACTICES

DO NOT ADD ANY OTHER MATERIALS TO THE DRY MORTAR.

7.1 \ Mixing water

The mixing water must be clean, and preferably potable. Drinking water is generally suitable.
Once the mixing is done, do not add any further water to the mortar.

7.2 \ Climate exposure

AE must not be applied if the environmental temperature is below 5ºC or above 30ºC.
Do not apply on top of frozen substrates, avoid application if the substrate is subject to direct strong winds or intense sun exposure.
Apply a fine spray of clean water at 24 hours after render application, and repeat at 48 hours and 72 hours.
In hot and/or dry climates, curing as above is essential and should be extend for 3 - 5 days after application

7.3 \ Thickness

Each render layer shall have a thickness between 1,5 cm and 2,0 cm, and each layer should have similar thicknesses.
Successive render layers must applied within a maximum of 24 hours, allowing just the necessary time to assure the setting and initial hardening of the bottom layer.
If the total thickness of the render exceeds 4 cm, or if the **AE** will serve as a final coat, a mesh fibre glass mesh, with openings of 10 mm to 14 mm, shall be used, between layers, and at approximately half the total thickness of the render. This mesh is applied on top of a still fresh render layer, and care must be taken to assure a homogenous and total cover of the underlying layer.

7.4 \ Transition zones between substrates

On transition zones between different substrates, such as for example brick and concrete, fibreglass mesh shall be used, with openings of 10 mm to 14 mm, between layers, and at approximately half the total thickness of the render. This mesh is applied on top of a still fresh render layer, and care must be taken to assure an homogenous and total cover of the underlying transition, and extending 10 cm to eAE side of the transition.

7.5 \ Corners and areas subjected to wear

On the corners of any opening on the wall (windows, doors) use a fibre glass mesh applied at a 45º angle to the sides of the opening. This mesh shall be identical and applied as described in **7.4**.
The usage of protection profiles is recommended on wall edges, if subject to mechanical wear.

For further information, check our Declarations of Performance, available at: **www.cimpor.com**

7.7 \ Finishing products

This mortar can, by itself, be used as the final layer, giving the all a "rough" finish.
If a finer type of finish is desired, then it can be used together with either (or both) **ACH** and **ACHF**, taking care to allow no more than 24 hours from the **AE** application, before applying these mortars.
AE can also as base for tiling, both with ceramic tiles and with stone.

8 \ HEALTH AND SAFETY

Contains cement (Contains chromium (VI). May produce an allergic reaction). Harmful by inhalation. Irritating to eyes and skin. Keep out of the reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical help. After contact with skin, wash immediately with plenty of soap and water. Wear suitable protective clothing, gloves and eye/face protection. Do not swallow.
For further information, please request the Material Safety Data Sheet for this product.

Any information presented on this document is, to the best of our knowledge and on the issue date, true. This document can be revised, and any information changed, without prior warning. Our responsibility goes only as far as the quality assurance of the product, and, thus, does not cover any eventuality that may arise from using this product in any form different from its intended use.

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