K 1710

DATA SHEET

Traditional with additional fibres base coat plaster/render with pozzolanic effect, made from pure nano lime for interiors and exteriors

Interior/Exterior

Sack

Silo

By hand

Spray

Composition

K 1710 is a dry mortar made from special nano-air lime, co- binders with pozzolanic action, hydraulic binder with very low heavy metal content, anti-shrinkage fibres, superior graded aggregate selected from the best carbonate rocks and specific additives.
The lime used for production, classified according to standard EN 459, features very high purity.
The lime used is ultra-fine: s uch h igh fi neness is ac hieved th rough ca reful gr ading of th e hy drated li me, ma king it possible to obtain a highly workable mix but above all ensuring rapid carbonation.
The characteristics of the formulation give the hardened plaster a high level of breathability.
The anti-shrinkage fibres significantly reduce the risk of crack formation, both in short and long term.
The product is free from any type of plastics.

Supply

- In bulk in silo (available in Italy, France and Switzerland)
- Special sacks with moisture protection, approx. 25 kg

Use

K 1710 is used as a base coat plaster on old and new walls made from stone, bricks, tuff, etc. The low modulus of elasticity and the presence of fibres make it particularly suitable for application on mechanically weak substrates, such as stone and/or brick walls (renovation work in general).

Substrate preparation

The wall must be free from dust, dirt, salt efflorescence etc.. Any traces of oils, greases, waxes, etc. must be removed beforehand. Smooth concrete surfaces must be dry and previously treated with a bonding agent such as S 650.
Joints of different elements must be reinforced with special, alkali-resistant, fibreglass mesh; the mesh must not be fixed directly to the masonry but embedded within the outer layer of the render/plaster To obtain high quality plastering and avoid excessive consumption of material, the brickwork should be carried out with particular care; the joints between the bricks must be filled effectively, any holes or cracks in the wall must be sealed beforehand and sub-frames for doors and windows must not protrude more than a few millimetres. To ensure the walls are plumb, use corner beads or screeds on the corners and vertical guides on the walls.

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Mixing

K 1710 is applied by hand or using plastering machines, such as FASSA, PFT, PUTZKNECHT, PUTZMEISTER, TURBOSOL and the like. For application by hand, add the product to the corresponding amount of clean water (as specified in the Technical Data) and mix by hand or using a mechanical stirrer for no more than 3 minutes, until obtaining a mixture of the desired consistency. After mixing with water, the mortar must be applied within 2 hours.
The plaster or render is applied from the bottom upwards and then levelled using an H-shaped or blade screed with horizontal and vertical movements so as to ensure, where required, a flat surface, or uniform render thickness. K 1710 is applied in a single layer up to 20 mm thick. For thicknesses exceeding 20 mm, the render must be applied successive layers. Each layer must be applied before the underlying layer hardens; the underlying layer must be left keyed/roughened. Surface work on the plaster (with a float or notched trowel etc.) can be carried out from 1.5 to 4 hours after application according to the ambient conditions and the type of surface.
The walls are finished by applying, when the plaster has completely hardened, fine-grained finish coat plasters such as S 605, FINITURA 750, BIO INTONACO FINE, mineral wall coatings, etc. A more rougher (for garages, basements etc.) can be obtained by finishing the material directly with plastic, wooden or sponge-covered float.

Warnings

- Product recommended for expert users.
- Always read the safety datasheet before use.
- The fresh product must be protected against frost and rapid drying. A temperature of +5°C is suggested as a minimum value for application. Below this value setting would be delayed considerably, and below 0°C the fresh or partially hardened mortar may be broken up by frost.
- Application in strong winds can cause the formation of cracks and rapid surface drying (“burning”) of the render. In these conditions suitable precautions should be adopted (protection of indoor spaces, application of the plaster in two layers, carefully floating the surface, etc.).
- For substrates not listed in the field of application (non-traditional construction systems, autoclaved aerated concrete blocks, wood-cement blocks, insulating masonry, etc.), refer to the substrate manufacturer’s instructions. The specific characteristics of such substrates may influence the outcome of subsequent applications. Our local technical consultants are available to recommend the most suitable methodology to reduce potential issues related to substrate specificity.
- For renovation works on different kinds of substrates and with different plaster thicknesses, please contact our local Technical Service to define the most suitable product cycle.
- Paint, coverings and wallpaper etc. must only be applied after the plaster/render has completely dried and cured.
- Ventilate the rooms thoroughly after application until the mortar is completely dry, avoiding excessive changes in temperature in the rooms.
- Due to the nature of the raw materials used (natural sands), uniformity of colour cannot be guaranteed between different supply lots. As a result, all the material required to finish the job should be acquired from the same batch.

K 1710 must be used as supplied, without the addition of any extraneous materials.

Storage

Keep in a dry place for a period not exceeding 12 months. Once the shelf life has expired, it must be disposed of in accordance with current legislation.

Quality

K 1710 is subjected to accurate and continuous checks in our laboratories. The raw materials used are rigorously selected and controlled.

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Technical Data

Specific gravity of the powder	approx. 1,400 kg/m³
Minimum thickness	10 mm
Granulometry	< 3 mm
Mixing water	21.5-23.5%
Yield	approx. 14.5 kg/m² per 10 mm thickness
Density of hardened plaster (EN 1015-10)	approx. 1,550 kg/m³
Compressive strength after 28 days (EN 1015-11)	approx. 2.5 N/mm²
Compressive strength after 90 days	approx. 3 N/mm²
Capillary water absorption coefficient (EN 1015-18)	W0
Water vapour diffusion resistance factor (EN 1015-19)	μ ≤ 7 (measured value)
Thermal conductivity coefficient (EN 1745)	λ = 0.57 W/m·K (tabulated value)
Compliant with standard EN 998-1	GP-CSII-W0
The performance values listed above are obtained by mixing the product with 22,5% water in a controlled temperature and humidity environment (20±1°C and 60±5% RH)	

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