

KB 13

DATA SHEET

Lime base coat plaster, with marmorino effect, for interiors and exteriors



Interior/Exterior



Sack



Silo



Spray

Composition

KB 13 is a dry mortar made from air lime, hydraulic binder with very low heavy metal content, graded aggregate and specific additives to improve workability and adhesion.

Supply

- In bulk in silo (not available in the UK)
- Special sacks with moisture protection, approx. 25 kg

Use

KB 13 is used as a base coat render on walls made of bricks, concrete blocks, rough concrete etc. For special underlays you need to follow the instructions of the supplier.

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 bonding agents such as SP 22 or 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.

Mixing

KB 13 is applied using plastering machines, such as FASSA, PFT, PUTZKNECHT, PUTZMEISTER, TURBOSOL and the like. It is applied in a single layer up to a thickness of 20 mm, by spraying from the bottom towards the top and then it is straightened with H floats or plastering trowels with horizontal and vertical strokes to obtain an even surface. For thicknesses exceeding 20 mm, the plaster must be applied in successive layers, at least 1 day apart, always remembering to roughen the underlying layer. After mixing with water, the mortar must be applied within two hours. 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 fine-graded finishing renders and skim coats, 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 data sheet 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 product 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 application on particular substrates (wood-cement panels, mesh, certain types of insulating walls etc.) we cannot guarantee results with no cracks. Please contact our Technical Department for advice on how to limit such problems. Nevertheless, it is advisable to consult the instructions of the supplier of the substrate.
 - 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.
- KB 13 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 product has expired, it must be disposed of in accordance with current legislation.

Quality

KB 13 is subjected to accurate and continuous checks in our laboratories. The raw materials used are rigorously selected and controlled.

Technical Data

Specific gravity of the powder	approx. 1,400 kg/m ³
Minimum thickness	10 mm
Granulometry	< 1.5 mm
Mixing water	22-24%
Yield	approx. 13 kg/m ² at 10 mm thickness
Density of hardened plaster	approx. 1,450 kg/m ³
Compressive strength after 28 days (EN 1015-11)	approx. 2.5 N/mm ²
Modulus of elasticity after 28 days	approx. 3,000 N/mm ²
Water vapour diffusion resistance factor (EN 1015-19)	$\mu \leq 8$ (measured value)
Capillary water absorption coefficient (EN 1015-18)	W0
Thermal conductivity coefficient (EN 1745)	$\lambda = 0.49$ W/m-K (tabulated value)
Radioactivity index (UNI 10797/1999)	I = 0.05 ± 0.01
Compliant with standard EN 998-1	GP-CSII-W0
The performance values listed above are obtained by mixing the product with 23% water in a controlled temperature and humidity environment (20±1°C and 60±5% RH)	

The above information refers to laboratory testing; it is possible that in practical applications on site these may differ considerably according to the conditions in which the material is applied. In any case the user must verify that the product is suitable for the intended application, taking all responsibility for its use. Fassa reserves the right to make technical modifications without notice.

Technical specifications regarding the use of Fassa Bortolo products for structural or fire prevention applications will only be officially valid if provided by Fassa Bortolo's "Technical Service" and "Research, Development and Quality System". If necessary, contact Technical Service in your country of reference (IT: area.technica@fassabortolo.com, ES: asistencia.technica@fassabortolo.com, PT: assistencia.technica@fassabortolo.com, FR: bureau.technique@fassabortolo.fr, UK: technical.assistance@fassabortolo.com).

Please note that for the aforementioned products, the assessment is required by the appointed professional, in accordance with regulations in force.