



## KD 2

## DATA SHEET

Lime-and-cement-based fibre-reinforced base coat plaster, for interiors and exteriors



Interior/Exterior



Sack



Silo



Spray

### Composition

KD 2 is a dry mortar made from hydrated lime, Portland cement, graded sand, non-shrink fibres and specific additives to improve workability and adhesion.

### Supply

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

### Use

KD 2 is used as a base coat plaster on interior and exterior masonry made of bricks, concrete blocks and 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 deposits etc.. Any traces of oils, fats, waxes, etc. must be removed beforehand. Smooth concrete surfaces must be dry and previously treated with bonding agents such as SP 22.

Joints between different elements must be reinforced with special alkali-resistant fibreglass mesh; the mesh must not be attached directly to the masonry, but should be embedded in the surface area of the 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 door and window frames must not protrude more than a few millimetres. To ensure the walls are plumb, use corner guards or screeds on the corners and vertical guides on the walls.

### Mixing

KD 2 is applied using plaster sprayers, 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 plaster knives with horizontal and vertical strokes to obtain an even surface. For thicknesses exceeding 20 mm, the plaster must be applied in a series of 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.

For exteriors a plastic or wooden float should be used in order to obtain a uniform and compact surface, suitable for thick finishing wall coatings. Where the surface is to be painted we suggest using IP 10 finishing plaster available in 1 mm grading. For interiors the finishing is carried out when the plaster has completely hardened by applying materials such as "Malta Fina", smoothing plaster or mineral-based wall coatings etc. A more rustic finish (for garages, basements etc.) can be obtained by finishing the material directly with plastic, wooden or sponge-covered float.



## Warnings

- Product for professional use.
- Always consult the safety data sheet before use.
- The fresh render must be protected against frost and quick drying. As the hardening of the plaster depends on the hydraulic setting of the cement and the air setting of the lime, a temperature of +5°C is suggested as a minimum value for application and for obtaining proper hardening of the mortar. Below this value, setting would be delayed excessively and below 0°C the fresh or partially hardened mortar could be broken up by frost.
- During the summer, on surfaces exposed to the sun, the plaster should be wetted for a few days after application.
- Application in strong winds can cause the formation of cracks and "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.).
- The use in exteriors of rough finishes, such as wall coatings or IP 10, limits the formation of hairline cracks to a greater extent than smooth finishes such as "Malta Fina", 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 Technical Department to choose the most suitable product cycle.
- Paint, coverings and wallpaper etc. must only be applied after the plaster has completely dried and cured.
- Aerate the rooms thoroughly after application until the mortar is completely dry, avoiding excessive changes in temperature in the rooms.

**KD 2 it must be used in its original state without the addition of foreign materials.**

## Storage

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

## Quality

KD 2 is subjected to accurate and constant checks in our laboratories. The raw materials used are rigorously selected and controlled.



<b>Technical Data</b>	
Specific gravity of the powder	approx. 1,400 kg/m <sup>3</sup>
Minimum thickness	10 mm
Granulometry	< 1.5 mm
Mixing water	approx. 23%
Yield	approx. 13.3 kg/m <sup>2</sup> with 10 mm thickness
Shrinkage	approx. 0.08 mm/m
Density of hardened plaster	approx. 1,530 kg/m <sup>3</sup>
Flexural strength after 28 days	approx. 0.8 N/mm <sup>2</sup>
Compressive strength after 28 days	approx. 1.5 N/mm <sup>2</sup>
Modulus of elasticity after 28 days	approx. 2,500 N/mm <sup>2</sup>
Water vapour diffusion resistance factor (EN 1015-19)	$\mu \leq 12$ (measured value)
Capillary water absorption coefficient (EN 1015-18)	W0
Thermal conductivity coefficient (EN 1745)	$\lambda = 0.55$ W/m·K (tabulated value)
Compliant with standard EN 998-1	GP-CSII-W0

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 check 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.tecnica@fassabortolo.com](mailto:area.tecnica@fassabortolo.com), ES: [asistencia.tecnica@fassabortolo.com](mailto:asistencia.tecnica@fassabortolo.com), PT: [assistencia.tecnica@fassabortolo.com](mailto:assistencia.tecnica@fassabortolo.com), FR: [bureau.technique@fassabortolo.fr](mailto:bureau.technique@fassabortolo.fr), UK: [technical.assistance@fassabortolo.com](mailto: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.