

Fibre-reinforced light plaster MFL

Fibre-reinforced, machine-applied light plaster. 100% mineral. Especially for lightweight walling.

Technical Specifications	
Building materials classification:	A 1
Mortar class:	LW CS I acc. to DIN EN 998-1 P II acc. to DIN V 18550
Compression strength:	approx. 2.2 N/mm ²
Tensile strength in bending:	approx. 1.1 N/mm ²
Grading:	0-2 mm
Water-vapour diffusion resistance μ :	approx. 12
Colour:	Natural white
Pot life:	approx. 2 hrs.
Processing temperature:	> + 5 °C and < + 30°C, Observe the processing instructions
Modulus of elasticity E:	approx. 1470 N/mm ²
Coefficient of linear expansion α_T :	approx. $6.0 \times 10^{-6} \times K^{-1}$
Thermal conductivity λ_R :	approx. 0.22 W/(mK)
Water requirement:	approx. 9 l per 20 kg
Yield:	approx. 27 l per 20 kg
Consumption:	approx. 12 kg/m ² at total plaster thickness of 15 mm
Storage:	In a dry place; approx. 6 months
Type of delivery:	20-kg sack, container, silo water-repellent

Properties:

- Mineral and diffusible
- Fibre-reinforced
- Water-repellent
- Weather- and UV-resistant
- Easy to process
- Requires no primer on highly absorbent substrates (e.g. aerated concrete)
- Also for extremely lightweight walling
- Favourable temperature expansion
- Low bulk density
- Low elastic modulus and therefore minimal risk of crack formation due to low-stress action
- Ratio of compression strength to tensile strength in bending approx. 2:1 => high elasticity
- Machine-processable
- Natural white

Application:

- For indoors and outdoors
- For plastering thermally insulating masonry walls, lightweight concrete, aerated concrete, honeycomb bricks, porous bricks, mixed masonry, etc.
- As a first coat for rendering of a thin layer of high-grade textured plaster
- Especially suited as a first coat for quick-mix high-grade plaster
- As a first and final coat for rendering mineral paint coats

Quality & Safety:

- Binding agent in acc. with DIN EN 197 and DIN EN 459
- Lightweight, mineral aggregate
- Mortar class P II as per. DIN V 18550
- Quality controlled
- Low in chromate as per TRGS 613

Substrate:

The plaster coat must be absorbent and dry and free from dust, formwork lubricants, wax and other separators. Requires no primer before being used on highly-absorptive substrates. Smooth-formed concrete and lightweight concrete surfaces are to be pretreated with a bonding bridge, such as PHG quick-mix plaster primer. When evaluating and preparing the plaster coat, please observe the directions given in VOB/C, DIN 18350, Para. 3 as well as under DIN V 18550 and DIN EN 13914 Part 1.

Handling:

Can be handled manually or using standard mixing pumps (with corresponding equipment for lightweight plaster). The amount of water to be added will depend on the type of machine used and the workable consistency needed. Mix in a 20 kg sack of MFL with approx. 9 l of water, adding more water if required.

When used as interior plaster, apply one single coat of MFL (approx. 10 mm thick) on fully-jointed masonry. Finish the surface, and, once the material has stiffened, rub down with a sponge float or dust off using a moist painter's brush.

When used as exterior plaster, apply one single coat of MFL (approx. 15 mm thick). Once matured (dried white) a thin coat of *quick-mix* high-grade textured plaster can be applied without any further pre-priming.

If thin-layer finishing plasters, < 2 mm thick, are to be applied, we recommend that special measures be taken to ensure an even surface and, depending on the type of plaster texture, that quick-mix mineral plaster primer MPGp be applied.

When used as a first and final coat on exterior walls, apply one single coat of MFL (approx. 12 mm thick), smoothen with a level and score the surface. After leaving to stand for at least 1 day, add approx. 5 mm of MFL as a finishing coat and then structure as desired. When dry, MFL will turn a natural white. Apply a coat of LOBACOLOR LK 300 mineral façade paint to the surface.

With surfaces that comprise various types of material, (such as roller shutter housings or ceiling coverings), a layer of fabric-reinforced plaster must be applied to the subsurface or masonry using quick-mix SKS-KL "Filling and adhesive mortar" and GWS reinforcement fabric. At corners and openings at outdoor locations, diagonal reinforcement, also using quick-mix SKS-KL and GWS reinforcement fabric, must be applied to the subsurface or masonry.

Use the fresh mortar within approx. 2 hours of mixing and protect it against rapid drying conditions (strong winds or direct sunlight) and unfavourable weather conditions (heavy rain, frost, etc.). Do not perform any plaster work at ambient or substrate temperatures below + 5° C.

Yield:

If mixed as prescribed, 20 kg of MFL dry mortar will produce approx. 27 litres of stuff.

Consumption:

The consumption rate will depend on the thickness of coat applied. A coat layer of 15 mm will require approx. 12 kg of dry mortar per m² of plastering surface.

Storage:

Store on a wooden pallet in a dry place. We recommend that you use the product within a period of approx. 6 months.

Type of delivery:

20-kg sack, container, silo

Important Note:

This product contains lime and cement which may cause an alkaline reaction when coming into contact with moisture/water. Eyes and skin should therefore be protected at all times. Any parts that come into contact with the product should always be rinsed with water. Immediately consult a doctor if the product comes into contact with eyes. Please also observe the instructions printed on the sack.

Any and all declarations stated in this document have been made on the basis of extensive testing and practical experience. They are not transferable to every individual application. We therefore recommend that you perform application testing as and when necessary. Specifications are subject to amendment as a result of improvements and developments. Our General Terms of Business shall also apply.

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For further details contact:

quick-mix Gruppe GmbH & Co. KG
Mühlenschweg 6, 49090 Osnabrück
Tel. +49 541/601-01, Fax + 49 541/601-853
info@quick-mix.de, www.quick-mix.de