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Plaster and Façade Systems

2013-08

Multi-Finish M

Machine applied gypsum filler and thin plaster

Product description

Knauf Multi-Finish M is a gypsum based synthetically modified machine applied filler and thin plaster.

- Finishing product C7-20-2 acc. to EN 13279-1
- Mortar group P IV acc. to DIN V 18550

Order information

25 kg bag Material no. 00096623

Storage

Store the bags on wooden pallets in a dry environment. Can be stored for approx. 6 months. Seal damaged and open bags airtight and use first.

Quality

In compliance with EN 13279-1, the product is subject to initial type testing and continuous factory production control and bears the CE mark.

Application

Exclusively for application with the PFT RITMO powercoat.

Use in interior areas for

- efficient filling of uneven and rough surfaces,
- filling of joints in prefabricated concrete, holes and slots,
- thin layer plastering of level substrates,
- creating surfaces of quality level "Q4 smoothed" *,
- full surface skimming of gypsum board surfaces to create quality level Q4 ** in conjunction with Knauf Putzgrund.

Knauf Multi-Finish M is also suitable for the creation of premium interior coloured decorative surface design.

Properties and added value

- Finishing product for interior applications
- Mineral based
- Ready to mix powder
- Universal field of application
- Synthetically enhanced
- Very efficient
- Skimming to layer thickness "zero" possible
- Fast drying
- Machine application (with PFT RITMO powercoat)

* Code of practice "Putzoberflächen im Innenbereich", issued by the Industriegruppe Baugipse in the Bundesverband der Gipsindustrie e.V. and the Bundesverband Ausbau und Fassade in the Zentralverband Deutsches Baugewerbe

** Code of practice No. 3 "Verspachtelung von Gipsfaserplatten Oberflächengüte", issued by the Industriegruppe Gipsplatten

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Application

Substrate	Pre-treatment
Smooth concrete surfaces	Remove film-forming concrete release agent as well as any existing sinter skin. Prime with Knauf Betonkontakt or Knauf Spraykontakt.
Precision block masonry	Prime with Knauf Aufbrennsperre if too absorbent or if absorptivity varies greatly.
Gypsum and gypsum fibre boards	Remove dust and prime with Knauf Aton Sperrgrund.
Existing gypsum and gypsum lime plaster	If necessary, remove existing sinter layers, old coating layers, etc. and prime with Knauf Grundol.

Preparation

Check substrate for compliance with VOB part C, DIN 18350, chapter 3.1 and/or according to VOB part B, DIN 1961 § 4 no. 3. All substrate surfaces must be stable, dry, level and free of grease and dust as well as free of any residue that may affect the adhesive properties.

Treat the substrate in accordance with the table above.

Cover easily-soiled building components before commencement in accordance with Code of Practice "Abklebe- und Abdekarbeiten für Maler- und Stuckateurarbeiten" issued by the Bundesverbandes Ausbau und Fassade.

Concrete substrates

Observe the Code of Practice "Gipsputze und gipshaltige Putze auf Beton", issued by the Bundesverband der Gipsindustrie e.V. The maximum residual moisture of the concrete surfaces must be $\leq 3\%$ by weight. If Knauf Spraykontakt is used, the maximum level of residual moisture may be $\leq 4\%$ by weight.

Concrete slabs must be free of surface water (e.g. rain, condensation).

If the uppermost ceiling of a building is to be plastered, the thermal insulation and sealing must be applied beforehand.

Mixing

Knauf Multi-Finish M is applied, conveyed and sprayed with the mixing pump PFT RITMO powercoat. Adjust the water ratio to achieve a lean and pliable mortar consistency. Knauf Multi-Finish M can be applied on ceilings up to 3.20 m in height by using a spray lance. The maximum possible duration of spraying interruptions may not exceed 15 minutes. Clean the machine in case of a longer interruption.

Application

Full surface skimming

Spread Multi-Finish M immediately after spray-

ing as even as possible using a Swiss Trowel, or similar. Level the surface about 40 to 60 minutes after sprinkling, depending on the absorptivity of the substrate, with the same tool and smoothen once or twice with increasing hardness.

Dampen the surface with a little water before smoothing for the second time. On large surfaces and with enhanced surface quality requirements, we recommend spraying a second layer directly after smoothening and to smoothen the surface once or twice as described above.

For skim coating of concrete surfaces, gypsum boards and plasters apply Knauf Multi-Finish M as single layer skimming plaster with layer thickness of at least 2 mm. If multi-layer application is required, the previous layer has to be dried and hardened. Then, prime with Knauf Aufbrennsperre (diluted by 1:3). After drying, spray next layer.

Filling of prefabricated concrete unit joints

Fill the prefabricated unit joints first, and if required, create a smooth and level transition to adjoining components in a second run if necessary.

If the surface is only to be painted afterwards, the use of Joint Tape Kurt is recommended.

Machines / equipment

Apply Knauf Multi-Finish M only with the PFT RITMO powercoat. Knauf Multi-Finish must be used for hand application.

Application time

Up to about 60 minutes depending on the substrate.

Application temperature / climatic conditions

Do not apply with room and/or component temperatures under $+5\text{ }^{\circ}\text{C}$. Protect freshly applied mortar and applied plaster from frost until fully dry.

Drying

Provide good ventilation to ensure quick drying of the plaster.

If mastic asphalt screed is applied after plastering, sufficient transverse ventilation is required to avoid thermal stresses.

Drying time at 2 mm plaster thickness is an average of 48 hours depending on the humidity, temperature and ventilation of the room. The drying time will be extended with unsuitable temperatures/air humidity.

Special notes

Do not mix Knauf Multi-Finish M with other materials because properties can possibly change significantly.

Do not use hardening material and do not try to fluidize it through adding of water or stirring to make it (only apparently) processable again. Clean the PFT RITMO powercoat mixing pump and tools with water immediately after use.

Remaining material can shorten the process time for the following compound.

Safety notes and disposal

See safety data sheet.

Coatings and linings

VOB part C, DIN 18363 and/or DIN 18366 must be observed. The plaster must be dry, free of loose bits and dust-free for all coatings and linings.

Apply primer to suit the subsequent paints/coatings/linings. Generally a primer such as Knauf Grundol is suitable. Apply a wallpaper paste layer to the wall for wallpapers. Tiling on Knauf Multi-Finish M is not permissible

Coatings

Suitable are dispersion paints (e.g. Knauf Intol E.L.F., Malerweiss E.L.F.), hybrid interior paint (Knauf Diamantweiss E.L.F.) silicate-based emulsion paints (e.g. Knauf Silikatweiss E.L.F.).

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Technical data

Flexural strength:	> 1.0 N/mm ²	EN 13279-1
Compressive strength:	≥ 2.5 N/mm ²	EN 13279-1
Surface hardness:	≥ 5.0 N/mm ²	EN 13279-1
Water vapour diffusion coefficient μ:	Dry: 10 Wet: 6	EN ISO 10456
Thermal conductivity:	0.34 W/(m·K)	acc. to EN 13279-1, table 2
pH value:	12	
Dry density:	approx. 950 kg/m ³	
Yield:	100 kg = approx. 115 l mortar	

The stated technical data were evaluated acc. to the respective test standards. Deviations under site conditions are possible.

Material requirement / consumption

Multi-Finish M	Consumption kg/m ²	Efficiency m ² /bag (25 kg)
Coat thickness 1 mm	1.1	22.0
Coat thickness 2 mm	2.3	11.0

All specifications are approximate values and deviate depending on the substrate. The exact consumption can only be determined on the individual object.

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