



P113.de



Plaster and Façade Systems

2013-08

MP 75 L

Efficient projection plaster for smooth finishing

Product description

Projection plaster MP 75 L is a light and particularly efficient pre-mixed dry mortar on proven plaster gypsum basis with special light aggregates for smoothed interior surfaces.

- Light gypsum building plaster B4/50/2 acc. to EN 13279-1
- Mortar group P IV acc. to DIN V 18550

Order information

30 kg bag Material no. 00005131
Bulk (silo) Material no. 00005132

Storage

Store the bags on wooden pallets in a dry environment. Can be stored for approx. 3 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

Plaster for creation of smoothed, freely-structured or levelled surfaces for interior walls and ceilings. As a single-layer plaster for all kinds of masonry, concrete as well as stable plasterable substrates.

- From the cellar right up to the roof, suitable for all rooms with usual levels or room humidity including domestic kitchens and bathrooms (e.g. WC's in schools and bathrooms in hotels, hospitals, residential-care and nursing homes)
- For the provision of surfaces in quality levels "Q1-Q4 smoothed" * and "Q1-Q3 levelled" *. "Q4 smoothed" * in conjunction with Knauf Multi-Finish or Readygips.
- As a surface for the following coatings or wall-papers
- As a substrate for tiling
- As a basecoat for finishing plasters

* 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*

Properties and added value

- Light gypsum building plaster for interior applications
- Mineral based
- Light and very efficient
- Establishes a comfortable and healthy room atmosphere
- Regulates moisture and is diffusion permeable
- Fire protection effective
- Abrasion-resistant and nail-proof
- Coat thickness up to 50 mm
- Allows hand or machine application

Application

Substrate	Pre-treatment
Board-marked concrete	Wetting test, prime non-absorbent surfaces with Knauf Betonkontakt or Knauf Spraykontakt.
Smooth concrete surfaces	Remove film-forming concrete release agent as well as any existing sinter skin. Prime with Knauf Betonkontakt or Knauf Spraykontakt.
All kinds of masonry	Prime with Knauf Aufbrennsperre if too absorbent or if absorbitivity varies greatly.
Gypsum and gypsum fibre boards	Remove dust and prime with Knauf Aton Sperrgrund.
Critical, non-stable substrate	Use plaster base
Wood wool lightweight boards	None
EPS sheathing blocks	Prime with Knauf Betonkontakt.
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. The substrate surface 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 $\leq 4\%$.

Using the plaster base Knauf PutzPin 8, correctly applied and/or pre-treated concrete substrates with a residual moisture of up to 6% by weight and a substrate temperature $\geq 2\text{ }^{\circ}\text{C}$ can be plastered.

Knauf PutzPin 18 is used in ceiling cooling systems with plaster thicknesses of 20 to 25 mm. Also observe the application instructions of the Product Data Sheet P631.de.

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

Machine application

Adjust the water feed to achieve a lean mortar consistency (approx. 1 bar/meter mortar hose). Depending on the temperature, breaks in spray-

ing should not exceed a max. of 10-15 minutes. Clean the machine and hoses with longer breaks in application.

Application by hand

Mix the content of one bag with clean water without further additions until application-ready consistency is achieved. When mixing, use clean water and do not add other additives. Clean the machines and tools with water immediately after use.

Application

In order to create a level surface, spread machine applied plaster flush and perpendicular with a H-straight edge (average plaster thickness 10 mm, minimum thickness 8 mm). After initial setting has commenced, level with a feather edge and align the corners. If required, the surface can be re-worked with a Wide Spatula.

After wetting the plaster surface with a Sponge Float, create enough plaster sludge and smoothen and sponge minor unevenness. After the plaster surface has set lightly, smoothen it with a Wide Spatula or Finishing Trowel.

On non-force locked components between the wall and ceiling, reveal connections, etc. the separation must be continued with a separation (trowel) cut in the plaster layer. Knauf Trenn-Fix as a separating strip is recommended instead of a separation cut. Apply self-adhesive Knauf Trenn-Fix to the flanking components and apply plaster on it. Cut off the protruding strips after setting.

Further measures for provision of the required surface quality - see Code of Practice "Putzoberflächen im Innenbereich".

Q4 in conjunction with Knauf Multi-Finish or Readygips.

Plaster thickness

Average plaster thickness 10 mm, minimum plaster thickness 8 mm. Cover tape conduits by min. 5 mm.

In special cases, a plaster thickness of up to 50 mm can be applied in a single layer to a wall, however, application of 2 layers should be considered when the plaster thickness exceeds 35 mm, as there is an increased drying time before further coatings can be applied with a single layer. The overall drying time is reduced when the first plaster layer dries more quickly. Roughen the first layer with a trapezoid metal sheet or similar and apply Knauf Aufbrennsperre primer (diluted 1:3 with water) when fully dry. The next layer may be applied when fully dry again.

Concrete ceilings only as a single layer and a maximum plaster layer of 15 mm.

On ceiling cooling systems in conjunction with Knauf PutzPin 18, plaster layers of 20 to 25 mm. As a tiling substrate a single layer is applied with a minimum thickness of 10 mm. Level wall surfaces after application and roughen them. Do not smoothen or sponge the surface.

EPS boards and sheathing blocks as well as wood wool lightweight boards should have a single layer applied and the entire surface must be reinforced (see plaster reinforcement), minimum plaster thickness 15 mm.

Plaster reinforcement

With a material change in the plaster substrate, with insulation boards, etc., bed Knauf Basecoat Mesh or Knauf PFT GITEX in the upper third of the plaster layer with at least 100 mm joint overlap and 200 mm overlap on all sides to the flanking component. The plaster is applied wet-in-wet in two layers, whereby the first layer has not yet started to set on the surface when the 2nd layer is applied.

Machines / equipment

Knauf PFT mixing pump G 4 / G 5

- Stator: D6-3
- Rotor: D6-3
- Mortar hoses: $\varnothing 25\text{ mm}$
- Wet mortar pumping distance: up to 30 m

Conveyors:

Knauf PFT SILOMAT trans plus 100 (up to distances of 100 m) or Knauf PFT SILOMAT trans plus 140 (up to distances of 140 m). Delivery rate for each 20 kg/min.

Application time

Up to about 180 minutes depending on the substrate

Application temperature / climatic conditions

Do not apply with room and/or component temperatures under $+5\text{ }^{\circ}\text{C}$, using System Knauf PutzPin* the concrete surfaces can be plastered at $\geq 2\text{ }^{\circ}\text{C}$.

Protect freshly applied mortar and applied plaster from frost until fully dry.

Drying

Provide good ventilation to ensure quick drying

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of the plaster.

If mastic asphalt screed is applied after plastering, sufficient transverse ventilation is required to avoid thermal stresses. Drying time at 10 mm plaster thickness is an average of 14 days depending on the humidity, temperature and ventilation of the room. The drying time will be extended with unsuitable temperatures/air humidity.

Special notes

Plaster must be applied acc. to EN 13914, DIN V 18550 and VOB part C (DIN 18350).

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.

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.).

Pre-treatment for tiling

Before the adhesive is applied, the residual moisture may not exceed 1 %, apply a primer such as Knauf Grundol.

Glue the tiles using the thin-bed method with cement-based adhesive (e.g. Knauf Bau- und Fliesenkleber**) or resin-based dispersion adhesive (e.g. Knauf Superkleber**).

For splash water areas, additional sealing such as Knauf Flächendicht is recommended. The tiles are then applied using flexible adhesive, e.g. Knauf Flexkleber eXtra**.

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Fire protection enhancement

Without plaster base (up to 15 mm plaster thickness)

A 10 mm thick plaster layer is equivalent to 10 mm of normal concrete used for the concrete cover of the reinforcement.

With non-combustible plaster base

A non-combustible plaster base is required for plaster thicknesses > 15 mm to 25 mm. Here 8 mm thick plaster with a plaster base is equivalent to 10 mm of normal concrete.

The plaster must penetrate the plaster base by ≥ 10 mm.

Technical data

Reaction to fire:	A1 non-combustible	EN 13279-1
Flexural strength:	≥ 1.0 N/mm ²	EN 13279-1
Compressive strength:	≥ 2.0 N/mm ²	EN 13279-1
Surface hardness:	≥ 6.0 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
Adhesive strength:	≥ 0.1 N/mm ²	EN 13279-2
pH value:	10-12	
Dry density:	approx. 950 kg/m ³	
Yield:	100 kg = approx. 125 l mortar	

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

Material requirement / consumption

MP 75 L	Consumption	Efficiency	
	kg/m ²	m ² /bag (30 kg)	m ² /ton
Coat thickness 10 mm	8.0	3.7	125.0

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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