

## Note on English translation / Hinweise zur englischen Fassung

This is a translation of the product data sheet valid in Germany.

All stated details and properties are in compliance with the regulations of the German standards and building regulations. They are only applicable for the specified products, system components, application rules, and construction details in connection with the specifications of the respective certificates and approvals.

Knauf Gips KG denies any liability for applications outside of Germany as this requires changes acc. to the respective national standards and building regulations.

# KNAUF



Plaster and Façade Systems

## P111a.de

Product Data Sheet

2021-07



# MP 75 Diamant

Plaster with enhanced surface hardness and compression strength for smoothing

## Product description

Projection plaster MP 75 Diamant is a pre-mixed gypsum dry plaster mortar with an enhanced surface hardness and compression strength for smoothed interior surfaces.

## Storage

Store the bags on wooden pallets in a dry environment. The product can be stored for 6 months. Seal damaged and opened bags airtight and use them first.

Bulk material can be stored for up to 24 months.

## Quality

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

## Properties and added value

- Gypsum plaster dry mortar B7/50/6 acc. to EN 13279-1
- For interiors
- Mineral-based
- High surface hardness and compression strength
- Suitable for all tiles/boards including thin-bed mortar > 25 kg/m<sup>2</sup>
- Resistant to temporary water saturation
- Regulates moisture and is diffusion permeable
- Fire protection effective
- Abrasion-resistant and nail-proof
- Hand and machine application

### Field of application

Plaster for creation of smoothed, freely-structured or levelled surfaces in areas subjected to particular high demands on 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 of room humidity including domestic kitchens and bathrooms (e.g. WCs in schools and bathrooms in hotels, hospitals, residential-care and nursing homes)
- As a substrate for tiles, finishing plasters, coatings or wallpapers
- For the provision of surfaces in quality levels
  - Q1 to Q3 levelled/skimmed
  - Q1 to Q4 smoothed
  - Q4 smoothed in conjunction with Multifinish or Rotband Reno (M)

<b>Note</b>	For application as a ceiling plaster in conjunction with PutzPin 8 or PutzPin 18 plaster bases as well as for ceiling cooling systems.
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### Application

#### Substrate and pretreatment

Clean the substrate of dust and loose parts and remove, ensure that the surface is smooth. All substrates must be stable, dry, even and free of grease and dust as well as free of any residual substances that may reduce the adhesion.

Check the substrate for compliance with VOB part C, DIN 18350, chapter 3.1 and/or according to VOB part B, DIN 1961 paragraph 4 section 3.

The substrate must be primed before application to ensure proper hardening and adhesion of MP 75 Diamant.

Substrate	Pretreatment
Non-absorbent to weakly absorbent (concrete)	Prime with Betokontakt or Spraykontakt
Differing to highly absorbent (masonry of all types)	Prime with Aufbrennsperre suction block
Gypsum and gypsum fibre boards	Pretreat with Aton Sperrgrund barrier coating
Critical, non-stable substrate	Use plaster bases

#### Preparation

Cover easily-soiled building components before commencement in accordance with Code of Practice "Abklebe- und Abdekarbeiten für Maler- und Stuckateurarbeiten - Masking and covering for painting and stucco work" (German only) issued by the Bundesverband Ausbau und Fassade.

Preparation of the substrate in accordance with the table "Substrate and pretreatment". Ensure that the drying time for the preliminary / primer coats is observed before continuing work.

#### Concrete substrates

Observe the Code of Practice "Gipsputze und gipshaltige Putze auf Beton - Gypsum plasters and gypsum-based plasters on concrete" (German only) issued by the German Bundesverband der Gipsindustrie e.V. The maximum residual moisture of the concrete surfaces must be  $\leq 3\%$  by weight. If Spraykontakt is used, the maximum level of residual moisture may be  $\leq 4\%$  by weight.

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

The PutzPin 18 plaster base is used with ceiling temperature control systems with plaster thickness's from 20 to 25 mm.

### Machines / equipment

PFT mixing pump G 4 / G 5

- Stator D6-3
- Rotor D6-3
- Mortar hoses Ø 25 mm
- Wet mortar pumping distance up to 30 m

### Conveyors

PFT SILOMAT trans plus 100 (up to distances of 100 m)

PFT SILOMAT trans plus 140 (up to distances of 140 m)

Delivery rate for each 20 kg/min.

### Mixing

#### Manual application

Mix the contents of one bag with clean water without further additions using an agitator until an application-ready consistence is achieved.

#### Machine application

Adjust the water feed to achieve a lean mortar consistence (approx. 1.1 bar / metre mortar hose). Keep the water setting as low as possible to avoid negatively influencing the achievable compressive strength. Depending on the temperature, breaks in spraying not exceeding 10 to 15 minutes are possible. Clean the machine and hoses in case of longer breaks / interruptions in application.

### Application

In order to create a level surface, spread the thrown-on / applied or machine-applied material flush and perpendicular with a H-straight edge. 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-frictionally bonded components between the wall and ceiling, reveal connections, etc. the separation must be continued with a separation (trowel) cut in the plaster layer. Trenn-Fix as a separating strip is recommended instead of a separation cut.

### Drying

Provide good ventilation to ensure quick drying of the plaster.

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

### Plaster thickness

Single-layer or double-layer: 8 to 50 mm

*Single-layer 8 to 50 mm*

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.

*Double-layer  $\geq 35$  to 50 mm*

Roughen the first layer with a trapezoid metal sheet or similar and apply Aufbrennsperre suction block primer (diluted 1:3 with water) when fully dry. The next layer can be applied after the first layer is fully dry.

*Concrete ceilings*

Plaster generally only as a single-layer and in conjunction with PutzPin 8 or PutzPin 18 (cover by min. 2 mm).

**Substrate for tiling**

Application as a single-layer in a minimum plaster thickness of 10 mm. Level and roughen wall surfaces after application. Do not smoothen or sponge the surface. Allow to dry and set fully before a tile covering is applied.

MP 75 Diamant is particularly suitable as a tile substrate when the total weight of the tiles and boards including the thin-bed mortar is 25 kg/m<sup>2</sup> and with large format tiles and panels.

MP 75 Diamant is suitable acc. to DIN 18534-1 "Waterproofing for indoor applications" as a basecoat for the classifications W0-I and W1-I.

**Reinforcement**

With a material change in the plaster substrate, with insulation boards, etc., bed Knauf reinforcement mesh 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.

**Application time**

Up to about 180 minutes depending on the plaster substrate.

**Application temperature / climate**

Do not apply material at air and/or substrate temperatures below +5 °C and above +30 °C. With PutzPin plaster base plaster application to concrete surfaces at ≥ +2 °C possible. Protect freshly applied mortar and applied plaster from frost until fully dry.

**Cleaning**

Clean the machines and tools with water immediately after use.

**Note**

Plaster must be applied according to DIN 4102-4, DIN 18350, DIN 18550, EN 13914-2 and VOB part C as well as the generally recognized building engineering rules, valid guidelines and codes of practice.

**Coatings and linings**

**Coatings**

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 deep primer such as Grundol is suitable. Apply a wallpaper paste layer to the wall for wallpapers.

**Decorative coats**

Suitable paints are e.g. Intol E.L.F., Malerweiss E.L.F. (dispersion paint), Raumklima E.L.F. (hybrid interior paint) and Silikatweiss E.L.F. (silicate based dispersion).

**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. Pretreatment with rough cast is necessary.

**With non-combustible plaster base**

A non-combustible plaster base is required for plaster thickness's ≥ 15 mm to 25 mm. Here 8 mm thick plaster with a plaster base is equivalent to 10 mm of normal concrete. The maximum plaster thickness on the plaster base is 25 mm. The plaster must penetrate the coarse meshed plaster base by ≥ 10 mm and with ribbed expanded metal by ≥ 5 mm.

**Alternative fire protection**

MP 75 L Fire is an excellent alternative for simple fire protection enhancement of steel and reinforced steel constructional components. Rough cast or plaster base is not necessary here.

### Technical data

Description	Standard	Unit	MP 75 Diamant
Reaction to fire	EN 13279-1	Class	A1
Flexural strength	EN 13279-1	N/mm <sup>2</sup>	≥ 2.0
Compressive strength	EN 13279-1	N/mm <sup>2</sup>	≥ 6.0
Surface hardness	EN 13279-1	N/mm <sup>2</sup>	≥ 12.0
Water vapour diffusion resistance $\mu$	EN ISO 10456	–	Dry: 10 Wet: 6
Thermal conductivity $\lambda_{10, dry, mat}$	EN 13279-1, table 2	W/(m·K)	0.47
Bond strength	EN 13279-2	N/mm <sup>2</sup>	≥ 0.1
pH value	–	–	10 – 12
Dry density	–	kg/m <sup>3</sup>	approx. 1250

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

### Material requirement and efficiency

Coat thickness mm	Consumption approx. kg/m <sup>2</sup>	Yield approx.	
		m <sup>2</sup> /bag	m <sup>2</sup> /t
10.0	12.0	2.6	85.0

The exact consumption can only be determined with a test application on the individual object.

### Product range

Description	Application	Packaging unit	Material number	EAN
MP 75 Diamant	30 kg	42 bags / pallet	00169194	4003982212313
	Bulk	–	00169195	4003982212320

### Sustainability and environment

Short description	Value
Requirements of the German AgBB-scheme	Compliant
Corresponds to the French emissions class	A+
VOC content acc. to RL2004/42/EC	Not relevant
Solvent and softener free acc. to VdL-RL01	Not relevant
Environmental Product Declaration	EPD-BVG-KNG-20140073-IAG1-DE



#### Observe safety data sheet!

For safety data sheets and CE marking see  
[pd.knauf.de](http://pd.knauf.de)



Videos for Knauf systems and products can be found under the following link:  
[www.youtube.com/knauf](http://www.youtube.com/knauf)



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▶ [knauf-direkt@knauf.de](mailto:knauf-direkt@knauf.de)

▶ [www.knauf.de](http://www.knauf.de)

**Knauf Gips KG** Am Bahnhof 7, 97346 Iphofen, Germany

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