

#### 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.



#### Plaster and Façade Systems

# P116a.de

Product Data Sheet

2019-08



## MP 75 ActiveComfort

Machine-applied gypsum plaster with increased moisture absorption

### Product description

#### Composition

Machine-applied gypsum plaster MP 75 ActiveComfort is a pre-mixed gypsum building plaster on a proven plaster gypsum basis with special lightweight aggregates (activated carbon), which provides optimum moisture balance in interiors by absorbing and releasing 50 % more moisture.

Lightweight gypsum building plaster B4/50/2 acc. to EN 13279-1.

#### 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

- Lightweight gypsum building plaster for interior applications
- Retards mould and mildew
- Regulates air humidity
- Diffusion permeable
- Establishes a comfortable and healthy room atmosphere
- Fire protection effective
- Mineral-based

### Field of 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 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 or coatings
- For the provision of surfaces in quality levels
  - Q1 to Q3 levelled
  - Q1 to Q3 smoothed

### 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.

Substrate	Pretreatment
Non-absorbent to weakly absorbent (concrete)	Prime with Betonkontakt 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
Multi-layer wood wool slabs	None
EPS sheathing blocks	Prime with Betonkontakt
Existing gypsum and Gypsum lime plasters	Prime with Grundol

#### 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  $\geq +2\text{ }^\circ\text{C}$  can be plastered.

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

Observe the additional application instructions of the Product Data Sheet P631.de PutzPin 8 / PutzPin 18.

Concrete slabs must be free of surface moisture (e.g. rain, condensation). If the uppermost ceiling of a building is to be plastered, the thermal insulation and sealing must be applied beforehand.

#### Machines / equipment

PFT mixing pump G 4

- 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 bar / metre mortar hose). Depending on the temperature, breaks in spraying not exceeding 10 to 15 minutes are possible. Clean the machine and hoses with longer breaks / interruptions in application.

#### 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. Trenn-Fix as a separating strip is recommended instead of a separation cut. Apply self-adhesive 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" (German only) issued by the Industriegruppe Baugipse in the Bundesverband der Gipsindustrie e.V.

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

*Single-layer 8 to 50 mm*

Average plaster thickness 10 mm, minimum plaster thickness 5 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 ≥ 35 to 50 mm*

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

*(Concrete) Ceilings*

May only be plastered as a single-layer and a maximum plaster layer of 15 mm.

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 reinforcement).

Minimum plaster thickness 15 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 priming and applying a tile covering.

In non-commercial bathrooms and kitchens (e.g. WCs in schools, bathrooms in hotels, hospitals, residential-care and nursing homes) as substrates for tiles and floor slabs, if the weight of the tiles and floor slabs including the thin-bed mortar does not exceed 25 kg/m<sup>2</sup>. Should it exceed this value use MP 75 Diamant.

MP 75 ActiveComfort 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 with room and/or component temperatures under +5 °C, using the PutzPin system the concrete surfaces can be plastered at an air temperature ≥ +2 °C. Protect freshly applied mortar and applied plaster from frost until fully dry.

**Cleaning**

Clean the machines and tools with water immediately after use.

<b>Note</b>	Plaster must be applied according to DIN 4102-4, DIN 18350, DIN 18550, DIN 18366, EN 13914-2 and VOB part C as well as the generally recognized building engineering rules, valid guidelines and codes or practice.
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**Coatings and linings**

The plaster must be dry, free of loose bits and dust-free for all coatings and linings.

**Decorative coats**

Suitable are diffusion permeable primers, finishing plasters, paints or other coatings.

The highly diffusion permeable Raumklima products are particularly suitable as final coats and/or paints. These products ensure that the positive properties of the moisture regulating gypsum plasters are retained.

e.g. Raumklima

- Primer
- Floated render
- Spray plaster
- Farbe E.L.F. paint

**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 bases**

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 plaster must penetrate the plaster base by ≥ 10 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	Value
Reaction to fire	EN 13279-1	Class	A1
Flexural strength	EN 13279-1	N/mm <sup>2</sup>	≥ 1.0
Compressive strength	EN 13279-1	N/mm <sup>2</sup>	≥ 2.0
Water vapour resistance factor $\mu$ dry	EN ISO 10456	–	10
Water vapour resistance factor $\mu$ wet	EN ISO 10456	–	6
Thermal conductivity	EN 13279-1, table 2	W/(m·K)	0.34
Bond strength	EN 13279-2	N/mm <sup>2</sup>	≥ 0.1
pH value	–	–	10 – 12
Dry density	–	kg/m <sup>3</sup>	approx. 1000
Moisture retention value	–	g/(m <sup>2</sup> ·% RH)	≥ 1.2

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.		Yield approx. l/100 kg
	kg/m <sup>2</sup>	m <sup>2</sup> /t	
10.0	9.1	110.0	110.0

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 ActiveComfort	30 kg	42 bags / pallet	00630113	4003982457653
	Bulk (Silo)	–	00630114	4003982457677

### Sustainability and environment

Short description	Value
Requirements of the German AgBB-scheme	Compliant
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-20140073-1AG1-DE



#### Observe safety data sheet!

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



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