

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.

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KNAUF

Plaster & Façade Systems

P121.de

Product Data Sheet

2023-03



Rotband

Bonding gypsum plaster for smoothing

Product description

Rotband bonding gypsum plaster is a hand applied gypsum plaster with special lightweight aggregates for smoothed interior surfaces.

Storage

Store the bags on wooden pallets in a dry environment. Can be stored for 6 months. Seal damaged and opened bags airtight and use them 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 marking.

Properties and added value

- Lightweight gypsum building plaster B4/20/2 acc. to EN 13279-1.
- For interiors
- Mineral based
- Light and high yield
- Regulates moisture and is diffusion permeable
- Fire protection effective
- Manual application
- Particularly suitable for plastering old plaster surfaces



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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. Also particularly suitable for renovation and repairs.

- From the cellar right up to the roof, suitable for all rooms with normal 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
 - Q1 to Q4 smoothed
 - Q4 smoothed in conjunction with Multifinish or Rotband Reno (M)

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 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
Wood wool lightweight boards	None
EPS sheathing blocks	Prime with Betokontakt
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 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.

PutzPin 18 plaster base is used with ceiling temperature control systems with plaster thicknesses from 20 to 25 mm

Mixing

Manual application

Mix the contents of one bag with approx 17 litres of clean water without further additions using an agitator until an application-ready consistence is achieved.

Application

Throw-on or apply the plaster mortar within 20 minutes after interspersing in the bucket. In order to create a level surface, spread the thrown-on or 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: 5 to 50 mm

Single-layer 5 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 levelling board 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 thickness 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. WC 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/m². Use MP 75 Diamant if the weight is higher.

Rotband 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 Unterputzgewebe (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.

Application time

Up to about 90 minutes depending on the 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, the plaster can be applied to concrete surfaces at ≥ +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.

Note	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 of practice.
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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 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 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. Pretreatment with rough cast is required.

With non-combustible plaster base

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 maximum plaster thickness on the plaster base is 25 mm. The plaster must penetrate the coarse meshed plaster base by ≥ 10 mm and the expanded metal mesh by ≥ 5 mm.

Alternative fire protection

MP 75 L Fire can be used as an alternative for simplified fire protection enhancement of steel and reinforced concrete components. No rough cast or plaster base is necessary here.

Technical data

Description	Standard	Unit	Rotband
Reaction to fire	EN 13279-1	Class	A1
Flexural strength	EN 13279-2	N/mm ²	≥ 1.0
Compressive strength	EN 13279-2	N/mm ²	≥ 2.0
Water vapour diffusion resistance μ	EN ISO 10456	–	Dry: 10 Wet: 6
Thermal conductivity $\lambda_{10, \text{dry, mat}}$	EN 13279-1, table 2	W/(m·K)	≤ 0.34
Tensile bond strength	EN 13279-2	N/mm ²	≥ 0.1
pH value	–	–	10 – 12
Dry density	–	kg/m ³	1000

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 ²	Yield approx. m ² /bag	m ² /t
10.0	8.0	3.8	125.0

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

Product range

Description	Application	Packaging unit	Material number	EAN
Rotband	30 kg	40 bags/pallet	00002862	4003982085160

Sustainability and environment

Short description	Value
Requirements of the German AgBB-scheme	Compliant
Complies with the requirements of the French emission class	A+
VOC content acc. to RL2004/42/EC	Not relevant
Solvent and softener free acc. to VdL-RL01	Not relevant
Available certificates	IBR
Environmental product declaration	EPD-BVG-20210317-IBE1-DE



Observe safety data sheet!

For safety data sheets and CE marking see
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