

#### 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 & Façade Systems

## P276a.de

Product Data Sheet

2023-03



# RP 240

## Universal groove render

### Product description

Mineral finishing coat for subtle or coarse grooves, friction effect or trowel cast texture as well as roll-on render or rustic plaster or trowel finish plaster worked with the finishing trowel

### Composition

Hydrated lime, white cement, graded quartz and limestone grains, water-retaining and water-repellent additives, and lightfast and alkaline resistant mineral colour pigments, if required.

### Storage

Store the bags on wooden pallets in a dry environment. The product can be stored for at least 12 months. Re-bag damaged bags and use first.

### Quality

In compliance with EN 998-1, the product is subject to initial type testing and continuous factory production control and bears the CE marking. Furthermore, the product is subject to external monitoring as a final layer in WARM WALL systems.

### Properties and added value

- Coloured rendering mortar CR acc. to EN 998-1
- Compressive strength category CS II acc. to EN 998-1
- Biocide-free
- For interior and exterior application
- Water-repellent
- Application in the plinth area
- For machine or hand application
- Grain size 2.0, 3.0 and 5.0 mm
- White (approx. RAL 9016)
- Can be coloured subject to limitations in colour shades for mineral-based finishing coats compliant to the Knauf ColorConcept colour-shade selector card

## Field of application

As a mineral finishing coat:

- On Knauf WARM WALL systems
- On lime, lime-cement and cementitious basecoats or reinforcement plaster
- On gypsum plasters
- On gypsum boards and plaster block

## Application

### Substrate and pretreatment

Substrate	Pretreatment
Lime, lime-cement and cementitious basecoats	Use Isogrund if required
Reinforcement plaster	Use Isogrund if required
Restoration plasters	None
Gypsum and gypsum lime plasters	Prime with Quarzgrund Pro/ Raumklima Grundierung <sup>1)</sup>
Smooth concrete, prefabricated concrete units	Prime with Quarzgrund Pro/ Raumklima Grundierung <sup>1)</sup>
Gypsum boards	Remove the dust and treat the sanded surfaces with Grundol if necessary. Pretreatment with Aton Sperrgrund barrier coating.
Plaster blocks	With absorbent substrates apply a primer coat of Grundol and a coat of Quarzgrund Pro / Raumklima Grundierung primer <sup>1)</sup>

Allow primer coats to dry for at least 12 hours before continuing work.

1) Drying time until subsequent application of Quarzgrund Pro/Raumklima Grundierung primer approx. 2 hours.

### Preparation

Check substrate for compliance with VOB part C, DIN 18350, DIN 18345 chapter 3.1 and/or according to VOB part B, DIN 1961 paragraph 4 no. 3. Clean the substrate of dust and loose parts and remove, ensure that the surface is smooth. Cover easily-soiled building components before commencement in accordance with Code of Practice "Abklebe- und Abdekarbeiten für Maler- und Stuckateurarbeiten" (German only) issued by the German Bundesverband Ausbau und Fassade. Protect weather-exposed surfaces from precipitation and direct sunlight.

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.

### Machines / equipment

Knauf PFT mixing pump G 4

- Stator D4-3
- Rotor D4-3
- Mortar hoses Ø 25 mm
- Wet mortar pumping distance up to 30 m

### Mixing

#### Mixing by hand

Thoroughly mix the content of one bag with 6.1 litres of clean water without further additions until an application-ready lump-free consistence is achieved.

#### Mixing by machine

For machine application using mixing pumps, e.g. PFT G4, set the desired consistence by adding water. Prelubricate the hoses with wallpaper paste and fill them successively.

### Application

#### Groove render

Apply mortar in grain thickness to the full surface with a stainless steel tool. In case of application by machine, spray on a thin layer of material and rule with a stainless steel tool. Using a suitable tool, e.g. PVC trowel etc., texture in the required direction (vertical, horizontal or circular).

#### Rustic plaster

Apply/spray on a sufficient plaster thickness and immediately model to the desired effect by application of offset pressure to the trowel and pulling it lightly away from the surface.

#### Trowel finish plaster worked with the finishing trowel

Apply the mortar slightly more than grain thickness and e.g. work horizontally with a large trowel.

#### Note

Work fresh-in-fresh, do not re-smoothen surfaces already smoothened. Always complete visually unified surfaces in one working step on the same day.  
Do not use a range of different tools to avoid differences in the colour and textural effects. Work simultaneously at alternating scaffolding levels to avoid differences in the visual appearance

### Reinforcement

To minimize the occurrence of plaster cracking with lightweight plasters in exteriors, a reinforcement plaster with full-surface mesh insert on the basecoat is recommended. For exterior plaster surfaces where the plaster system is exposed to increased stress, e.g. particular exposure of the façade, use of freely textured, brushed or sponged finishing plasters, finishing plasters < 2 mm grain size (acc. to DIN 18350, VOB Part C, < 3 mm), luminosity < 20, a reinforcing plaster with full-surface mesh insert is on the basecoat is generally recommended. Refer to the "Leitlinie für das Verputzen von Mauerwerk und Beton - Guidelines for plastering masonry and concrete" issued by the VDPM e.V. (German only). The exceptions to this case are Gigamit and Sockel Gigamit with a full surface mesh insert.

### Plinth application

The render system must be protected against the ingress of moisture at the connection to the lower edge. The required plaster sealing or the necessary moisture protection must be applied up to at least 5 cm above the edge of the ground line or top edge of the covering. In the lower edge, this is recommended for application up to the existing building sealing. As a plaster seal / moisture protection, apply Sockel-Dicht in a layer thickness of at least 1.2 mm (dry layer thickness min. 1 mm). A protective layer with slip membrane (e.g. fleece laminated dimpled sheet) should be provided on the construction as protection against damage after drying.

### Application temperature / climate

Do not apply with air, component and/or substrate temperatures below +5 °C and ensure that temperature does not fall below this temperature until the plaster has hardened sufficiently. Furthermore, the temperature should not exceed 30 °C during application.

In order to prevent rapid dehumidification of the fresh plaster by the exposure to direct sunshine (high surface temperatures), and/or strong wind (danger of cracks reduction in strength) suitable protection measures / treatment (e.g. protective nets, keeping moist) are required.

### Cleaning

Clean the machines and tools with water immediately after use.

#### Notes

Renders must be applied according to EN 13914, DIN 18550, DIN 55699, DIN 18345 and DIN 18350 well as the generally recognized building engineering rules and valid guidelines.

The mineral finishing plaster offers some protection against algal and fungal growth and has an inhibiting effect due to its natural alkaline formulation. No guarantee can, however, be given for long-term protection against algal and fungal growth. The susceptibility depends on the local and environmental conditions.

Heating in rooms should only be put into operation in stages. Rapid dehumidification, e.g. using dehumidifiers should be avoided.

#### Notes

When mineral finishing plasters are applied, it is possible that a uniform colour hue may not be achieved or a difference in the degree of gloss may occur on the plaster surface due to processing, consistence, weather-related or drying condition factors.

These features, however, in no way impair quality and shall not provide any justification for claims in respect of the material as they stem from uncontrollable physical conditions at the site and they can be equalized by application of a coating.

A 100% colour uniformity between the finishing render and the coating as well as on the Knauf colour shade selector card cannot be guaranteed. The colour effect is influenced by lighting effects on the surface, exposure to weather and drying conditions. We recommend that you create some test areas to determine the exact colour effect.

## Coatings and linings

### Paints

Finishing renders must be fully hardened and dry before paint coats are applied.

An additional coating in the plaster colour shade with Siliconharz-EG-Farbe paint or MineralAktiv Fassadenfarbe paint is recommended for exterior applications after a drying time of at least 7 days when pigmented plasters are used (for WARM WALL systems with white finishing plasters also) (refer to the Code of Practice "Egalisationsanstriche auf Edelputzen" of the Verband für Dämmsysteme, Putz und Mörtel e.V. (VDPM) (German only). In case of white finishing renders which are to be pigmented in exteriors, a double coat of Knauf Fassadenfarbe façade paint is recommended. At a luminosity < 20, a reflection-optimized paint coat using Fassadol TSR or Autol TSR should be applied to the white finish coat.

In interiors, white finishing coats can be painted and pigmented finishing coats should be painted using Knauf interiors paints.

### Technical data

Description	Standard	Unit	RP 240
Reaction to fire	EN 13501-1	Category	A1
Graining	–	mm	2.0 / 3.0 / 5.0
Compressive strength	EN 1015-11	Category	CS II
Water vapour diffusion resistance $\mu$	EN 1015-19	–	$\leq 20$
Thermal conductivity $\lambda_{10, \text{dry, mat}}$ at P = 50 % P = 90 %	EN 1745	W/(m·K) W/(m·K)	$\leq 0.82$ $\leq 0.89$
Capillary water absorption	EN 1015-18	Category	W 2

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

### Material requirement and efficiency

Graining mm	Coat thickness mm	Consumption approx. kg/m <sup>2</sup>	Yield approx. m <sup>2</sup> /bag
2.0	2.0	3.1	8.1
3.0	3.0	3.8	6.6
5.0	5.0	5.0	5.0

The consumption values were determined under laboratory conditions. Additional consumption resulting from conditions in practice must be taken into account. The material consumption depends on the roughness, evenness and absorption properties of the substrate as well as the machinery used.

### Product range

RP 240	Application	Packaging unit	Material number	EAN
2.0	25 kg	42 bags / pallet	00763705	4003950142994
	25 kg pigmented		00763712	4003950143021
3.0	25 kg		00763713	4003950143052
	25 kg pigmented		00763794	4003950143083
5.0	25 kg		00763798	4003950143113

Please refer to the Farbcenter for possible colour shades (German only) at:

[knauf-farbcenter.de](http://knauf-farbcenter.de)



#### Observe safety data sheet!

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



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[youtube.com/knauf](https://youtube.com/knauf)



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#### Knauf Direct

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