

## Note on English translation / Hinweise zur englischen Fassung

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# KNAUF



Plaster & Façade Systems

## P271d.de

Product Data Sheet

2023-03



# Presto One

## One-coat scratch render

### Product description

Mineral scratch render in 1.5 mm grain size as a classic one-coat scratch render on all conventional masonry types and concrete in exteriors.

### Composition

Hydrated lime, white cement, graded limestone grains, mineral lightweight aggregate, water-retaining and water-repellent additives, and alkaline resistant 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.

### 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.

### Properties and added value

- One-coat rendering mortar OC acc. to EN 998-1:2017-02
- Compressive strength category CS II acc. to EN 998-1:2017-02
- Fulfills the typical characteristics of a lightweight plaster type II
- For exterior applications
- Water-repellent
- Machine application
- Limited colour shading with Knauf ColorConcept colour shade selector card

### Field of application

Suitable for use on all masonry types as a one-coat scratch render after a full surface layer of reinforcement basecoat. Particularly suitable for

- Masonry with insulation material filling
- Lightweight vertical coring brick with a density class  $< 0.8 \text{ kg/dm}^3$
- Aerated concrete masonry with a density  $\geq 350 \text{ kg/m}^3$
- Lightweight concrete masonry with a thermal conductivity  $\lambda < 0.14 \text{ W/(m}\cdot\text{K)}$

## Application

### Substrate and pretreatment

Substrate	Pretreatment
Brick, pumice, aerated concrete or lightweight concrete masonry and concrete	SM300
XPS-R insulation boards	SM300
Small format multi-layer wood wool slabs	SM300

Surface in the set state should be roughened horizontally with a coarse broom.

### Preparation

Check substrate for compliance with VOB part C, DIN 18350, and/or according to VOB part B, DIN 1961 paragraph 4 no. 3. Clean the substrate of dust and remove loose parts ensuring 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 surfaces from precipitation and direct sunlight with scaffolding netting.

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.

### Recommended plaster profiles

Edge profiles: Protektor 1821 (10 mm), Protektor 1824 (15 mm)

Plinth profiles: Protektor 1225 (10 mm), Protektor 1227 (15 mm)

Bedding of the profiles is undertaken with AM300.

### Machines / equipment

PFT mixing pump G 4

- Stator D6-3
- Rotor D6-3
- Mortar hoses Ø 25 mm
- Wet mortar pumping distance up to 40 m
- Mortar hoses Ø 25 to 35 mm
- Wet mortar pumping distance PuMax up to 52 m

Presto One (bulk) cannot be fed using a conveyor. When bulk material is used, a delivery hood is essential between the silo and mixing pump.

### Mixing

#### Mixing by hand

Application by hand only on small surfaces. Mix the contents of a bag using a continuous mixer until the right consistence is achieved. When mixing, only use clean water and do not add other additives.

#### Mixing by machine

For machine application using mixing pumps, e.g. PFT G4 or PuMax, set the desired consistence by adding water. Pre-lubricate the mortar hoses with wallpaper paste and put into operation individually.

### Application

Spray on the mortar for each scaffold level at a thickness of approx. 18 mm. To reduce the danger of trapped air bubbles, solidify the fresh mortar using a notched trowel (10 to 12 mm tooth spacing) while working crosswise.

Subsequently level with the notched scraper.

Any shrinkage cracks that have resulted from thicker plaster layers or windy weather conditions should be sealed and consolidated before the scratch finish.

When setting starts, possible on the same day but usually on the following day, scratch in circular motions and remove any unevenness with the scraper. The optimum scratch time is when the grain cracks when scratched. Flaws, which have occurred due to trapped air are closed, sealed and scratched with material from the same work step (possibly from the previous day). Premature scratching results in a darker colour shade and unclear structure.

In order to avoid weather-related or process-related colour shade differences, unified plaster surfaces should always be plastered from corner to corner without interruption to ensure uniform solid setting upon completion. After scratching, the render thickness is about 15 mm. Dried scratched render surfaces should be brushed professionally from top to bottom. With scraped render the loss of individual grains cannot be avoided (EN 13914-1). In case of Presto One plaster application, we recommend suitable measures to protect against direct exposure to sunlight.

#### Caution

After the surface has been completed, brush it off and immediately dismantle the scaffolding to avoid markings caused by the scaffolding.

### Reinforcement

#### Plaster substrate upgrade

Apply SM300 to the full surface on the substrate in a layer thickness of approx 5 mm. Embed taut and crease-free reinforcement mesh 4x4 mm in the fresh SM300. Overlay the mesh by at least 100 mm. Embed additional diagonal reinforcement at corners, on building openings, etc. After the plaster has set, roughen the surface e.g. with a coarse broom. The reinforcement mesh should be fully covered with SM300.

#### Caution

Roughen the SM300 and allow to dry for at least 1 day and a maximum of 3 days before Presto One is applied.

With this arrangement (reinforcement basecoat directly on the substrate), the stresses that originate from differing substrate characteristics are distributed across a larger partial surface and the risk of individual cracks is reduced.

More information can be found in the "Leitlinie für das Verputzen von Mauerwerk und Beton - Guidelines for plastering masonry and concrete", issued by VPDM e. V. (German only).

### 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.

**Note** Plaster must be applied according to EN 13914-1, DIN 18550 and DIN 18350, VOB part C as well as the generally recognized building engineering rules and valid guidelines.

**Note** 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.

**Notes** When mineral finishing plasters are applied, it is possible that a uniform colour hue may not be achieved 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 may adjust over time due to natural exposure to weather and carbonation.  
A 100% colour uniformity between the finishing plaster and 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.

### Technical data

Description	Standard	Unit	Presto One
Reaction to fire	EN 13501-1	Category	A1
Graining	–	mm	1.5
Compressive strength	EN 1015-11	Category	CS II
Tensile adhesion strength Failure pattern	EN 1015-12	N/mm <sup>2</sup>	≥ 0.08 A, B or C
Capillary water absorption	EN 1015-18	Category	W 2
Water vapour resistance factor μ	EN 1015-19	–	≤ 20
Thermal conductivity λ <sub>10,dry,mat</sub> at P = 50 % P = 90 %	EN 1745	W/(m·K) W/(m·K)	≤ 0.82 ≤ 0.89

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

### Material requirement and efficiency

Application kg	Graining mm	Layer thickness unscratched mm	Layer thickness scratched mm	Consumption approx. kg/m <sup>2</sup>	Yield approx. m <sup>2</sup> /bag
25	1.5	18	15	25	1.0

*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

Product designation	Application	Graining	Packaging unit	Material number	EAN
Presto One	25 kg	1.5 mm	42 bags / pallet	00614650	4003950122682
	Bulk	1.5 mm	Silo	00631802	4003950124488
	25 kg pigmented	1.5 mm	42 bags / pallet	00631808	4003950124495



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