

Note on English translation / Hinweise zur englischen Fassung

This is a translation of the technical 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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Plaster and Façade Systems

2013-09

Knauf Carrara

Modelling render with marble grain

Product description

Mineral-based, fine grain finishing plaster in 1 mm marble grains for diverse textured interior and exterior surface finishes.

Composition

Hydrated lime, white cement, graded marble grains, water-retaining and water-repellent additives, and alkaline resistant colour pigments, if required

Order information

30 kg bag

- Grain size 1.0 mm Material no. 00015094
- Coloured (colour shade selector card Knauf ColorConcept) Material no. 00014534

Storage

Store the bags on wooden pallets in a dry environment. Can be stored for at least 12 months.

Quality

In compliance with DIN EN 998-1, the product is subject to initial type testing and continuous

factory production control and is marked with the CE marking. Furthermore, the product is subject to external monitoring and is thus authorized to bear the Ü marking.

Field of application

For the creation of diverse textured or brushed surfaces, e.g. as a trowel finish, old German style render finish or washed or brushed render effects. Apply Carrara 3-5 mm using a trowel; texture as required and subsequently use a sponge or brush to finish. As a mineral finishing coat

- on Knauf WARM WALL systems,
- on lime, lime-cement and cementitious plasters both indoors and outdoors,
- on gypsum plasters,
- on gypsum boards and plaster block.

Properties and added value

- Coloured rendering mortar CR acc. to EN 998-1
- Compressive strength category CS II acc. to EN 998-1
- Mortar group P II acc. to DIN V 18550
- Suitable for interior and exterior application
- Water-repellent
- For machine or hand application
- Reaction to fire A1
- Grain size 1 mm
- Colour shade white (similar to RAL 9003)
- Can be coloured subject to limitations in colour shades for mineral-based finishing coats compliant to the Knauf ColorConcept colour-shade selector card.

Package

Substrate	Pretreatment
Basecoat render such as SM700 Pro, SM300, Lustro	None
Lime-cement plasters (for interior application) such as UP 210, UP 210s	Isogrund if required
Restoration plasters such as Stens Hell or Popo	None
Gypsum plasters or gypsum lime plasters such as MP 75 L, MP 75 G/F Leicht, MP 75 Diamant, etc.	Quarzgrund
Concrete	Quarzgrund
Firmly adhering coatings and stable old plasters (level)	Aton Sperrgrund, apply Grundol primer with absorbent substrates.
Gypsum boards	Sand down coarse filler and remove the dust. Apply a primer coat of Grundol and barrier coat of Aton Sperrgrund. If there is a danger of possible yellowing (observe BFS Code of Practice No. 12), application of a second coat of Aton Sperrgrund barrier coating is necessary.
Gypsum wallboards	With absorbent substrates apply a primer coat of Grundol and a coat of undiluted Quarzgrund.

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 and remove dust and loose parts on the substrate, 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 - Masking and covering for painting and stucco work" (German only) issued by the Bundesverband Ausbau und Fassade. Protect weather-exposed surfaces from precipitation and direct sunlight.

Substrate pretreatment according to the pretreatment table. Preliminary coatings/primers must dry for at least 12 hours before the next coat is applied.

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.

Basecoats and adhesive must be fully dry and set before the application of Carrara.

Mixing

Machine application:

For machine application using mixing pumps, e.g. PFT G4, set the desired consistency by adding water.

Application by hand:

Mix the content of one bag with approx. 7.5 litres of clean water without further additions until an application-ready lump-free consistence is achieved. When mixing, use clean water and do not add other additives. Clean the machines and tools with water immediately after use.

Application

Apply/spray on approx. 3-5 mm of plaster (at least 3 mm with recesses), smoothen with a trowel and texture immediately using the desired tool (sponge float, trowel, brush, roller, etc.). Work fresh-in-fresh, do not re-smoothen surfaces already smoothened, brush if required. Always complete visually unified surfaces on the work stage.

On concrete apply the first layer of about 2 mm to the full surface and allow to touch dry. Subsequently apply a second layer and texture it.

Plinth application

After drying out, all rendered surfaces in contact with ground or gravel beds shall be waterproofed/protected against moisture ingress, starting from basement wall waterproof barrier up to approx. 5 cm above ground level, in accordance with DIN 18195. For this purpose, Knauf Sockel-Dicht plinth sealing can be applied with a thickness of at least 2.5 mm (double-layer). Cover with a fleece laminated dimpled sheet after drying.

Reinforcement

An additional full surface reinforcement layer with SM700 Pro, SM300 or Lustro is recommended for exterior façades and WARM WALL systems

with freely textured, brushed surfaces or textured renders where the grain size is less than 2 mm (in acc. with DIN 18350, VOB part C, < 3 mm). With a double reinforcement layer, a basecoat of approx. 2 mm thickness should be applied between the reinforcement mesh layers.

For exterior and interior plasters, with a change of material in the background, with insulation panels applied over small areas and multi-layer wood wool slabs etc., apply Knauf basecoat mesh in the upper third of the plaster layer with at least 100 mm joint overlay and 200 mm overlap on all sides to the flanking component or apply an additional full-surface mesh reinforcement with SM700 Pro, SM300 or Lustro. Apply diagonal reinforcement at corners, on building openings, etc.

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

Application temperature / climatic condition

Do not apply material at air and/or substrate temperatures below +5 °C and above +30 °C. Protect fresh mortar from frost and rapid drying.

Special notes

Plaster must be applied according to DIN EN 13914, DIN V 18550, DIN 18345, DIN 55699 and DIN 18350, VOB part C as 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. The information stated here does not release the purchaser from their own examination and tests with regard to the suitability for the intended purpose. A guarantee of the general validity of all the information stated is excluded due to the different application and on-site conditions.

Safety instructions and disposal

See Safety Data Sheet.

Reinforcement in dependence on the basecoat and luminosity of the final coating

Basecoat	Graining mm	Luminosity of the final coating				
		100 to 30	29 to 25	24 to 20	19 to 15	14 to 10
SM300	1.0	●●	○○	-	-	-
Lustro	1.0	●●	○○	-	-	-
SM700	1.0	●●	○○	-	-	-
SM700 Pro	1.0	●●	○○	-	-	-
All basecoats	1.0	●	●	●	○○	-

Reinforcement: ● single layer ●● double layer ○○ double layer, only small surfaces, larger surfaces on request

Coatings

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, consistency, 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 due to the different pigmentations. Differences in the colour

hues even with the same colour shade cannot be fully ruled out. Observe Code of Practice no. 26 "Farbveränderungen von Beschichtungen im Außenbereich - Colour changes in exterior coatings" of the Bundesausschuss Farbe und Sachwertschutz (Federal Paint and Property Protection Committee).

Finishing renders must be fully hardened and dry before the paint coating is applied. An additional coating in the plaster colour shade with Silikonharz-EG-Farbe is recommended for exterior applications after a drying time of at least 7 days when coloured plasters are used (with WARM WALL systems with white finishing plasters also) (refer to the recommendations of the Indus-

trieverband Werkmörtel e.V. - Equalization coats on finishing plasters). For white exterior plasters which are to be coloured, after a Grundol primer is applied, two coats of Autol (silicon resin façade paint), Minerol (silicate façade paint) or Fassadol (siloxane-reinforced façade paint) are recommended.

White finishing plasters used in interior applications can be painted with Rotkalk Farbe E.L.F. (silicate based paint), Silikatweiss E.L.F. (silicate based dispersion paint), Diamantweiss E.L.F. (hybrid-paint), Intol E.L.F. (interior emulsion paint) and Malerweiss E.L.F. (interior dispersion paint).. Paint coloured finishing plasters with Rotkalk Farbe E.L.F (silicate based paint) or Intol E.L.F (interior dispersion paint).

Technical data

EN 998-1

Reaction to fire:	A1	EN 13501-1
Grain size:	1.0 mm	
Compressive strength (category):	CS II	EN 1015-11
Water vapour diffusion resistance μ :	≤ 20	EN 1015-19
Thermal conductivity $\lambda_{10, dry, mat}$:	≤ 0.82 W/(m K), at P=50 % ≤ 0.89 W/(m K), at P=90 %	DIN EN 1745
Capillary water absorption (category):	W 2	EN 1015-18

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

Material requirement / efficiency

Grain size mm	Coat thickness mm	Consumption kg/m ²	Yield m ² /bag
1.0	3.0	approx. 3.8	approx. 8.0
1.0	5.0	approx. 6.5	approx. 4.5

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

Knauf Direct

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