

Capatect GUP FL 200

Fibre-reinforced lightweight base coat for all common masonry substrates indoors and outdoors



Product Description

Field of Application	Fiber-reinforced lightweight lime cement plaster type II as per DIN EN 998-1 as base plaster for monolithic masonry and highly thermally insulating masonry made of lightweight bricks, lightweight concrete and aerated cement concrete blocks (ACC) as well as rough moulded concrete; for inside and outside use. As a fiber-reinforced basic plaster with a reduced crack tendency on demanding plastering grounds such as mixed masonry etc.
Material Properties	<ul style="list-style-type: none"> ■ Reinforced with fibres and EPS lightweight aggregates ■ Can be overcoated with all Capatect decorative renders ■ Good adhesion to all mineral substrates ■ Specially adapted to the properties of high thermal insulation masonry ■ Particularly high coverage ■ Low stress ■ Application by machine or by hand
Packaging/Package Size	20 kg bag, silo from 5.0 t
Colours	Grey
Storage	Cool, dry and protected from moisture. Shelf life in original sealed container at least 9 months.
Technical Data	<ul style="list-style-type: none"> ■ Heat conductivity: $\lambda_{10 \text{ dry}} \leq 0.25 \text{ W/(mK)}$ for P= 50 % acc. to DIN EN 1745 $\lambda_{10 \text{ dry}} \leq 0.27 \text{ W/(mK)}$ for P= 90 % acc. to DIN EN 1745 ■ Resistance-count for diffusion μ (H₂O): $\mu \leq 20$ according to DIN EN 1015-19 ■ Water vapour permeability: $\mu \leq 20$ according to DIN EN 1015-19 ■ Compressive strength: Category CSII according to DIN EN 998-1 > 2.5 N/mm² according to DIN EN 1015-11 ■ Apparent density of hardened mortar: Approx. 0.95 g/cm³ ■ Tensile strength under flexion: Approx. 1.1 N/mm² ■ Adesive tensile strength: $\geq 0,08 \text{ N/mm}^2$ according to DIN EN 1015-12 ■ Fire behaviour: Class A1 according to DIN EN 13501-1 (non-combustible) ■ Vehicle / Binding agent: Mineral binder according to DIN EN 197-1 and DIN 459-2 and aggregates according to DIN EN 13139 ■ Dynamic modulus of elasticity: Approx. 2500 N/mm² ■ Capillary water absorption: Category Wc2 according to DIN EN 998-1 $c \leq 0.20 \text{ kg/(m}^2\text{min}^{0.5})$ according to DIN EN 1015-18
Supplementary Product	Capatect GUP SLP 201



Product No. 200

Note Due to the organic lightweight aggregate, Capatect GUP FL 200 must not be used without finishing render. The use of solvent-based products is not possible.

Application

Substrate Preparation

Mask off window sills and add-on parts. Carefully cover glass, ceramics, clinker, natural stone, painted, glazed and anodised surfaces.
Pre-plaster window reveals, grip pockets and break-outs.

The substrate must be even, load-bearing, sufficiently dimensionally stable and free of dust and other impurities; it must be dry and frost-free.
Compliance with tolerances according to DIN 18202 must be checked if this is necessary to meet the requirements.

In case of high temperatures and wind, pre-wet the substrate.
Always pre-wet dry aerated concrete. The substrate should be matt damp.

To improve the bond between the substrate and the following render coat, apply "Capatect Klebe- und Armierungsmasse 186M" or "Capatect Klebe- und Armierungsmasse 170" to all surfaces of wood wool building boards, smooth and/or slightly absorbent substrates, e.g. XPS-, EPS-insulation boards, and comb through with a notched trowel 5 mm. Follow-up coatings are applied 24 - 72 hours later, depending on weather conditions.

Smooth or poorly absorbent masonry or concrete substrates must be pretreated with a bonding bridge or a spray coat.

Damp walls must be dried beforehand.
Always check and prepare the substructure and apply the render in accordance with VOB/C-ATV-DIN 18350 and DIN 18550-1 or DIN 18550-2.

Preparation of Material

Mix 20 kg material (one bag) in approx. 6.7 l cold, clean water.
Mix with standard plastering machines, electric mixers or compulsory mixers.

Method of Application

The stone manufacturer's specifications take precedence over the following descriptions.

Applying a layer of render:

Apply the material in the desired render thickness by machine or manually with a trowel and stainless steel trowel and level with a cartridge.

Roughen sintered layers with a grid scraper and remove unevenness. Depending on the weather conditions, the surfaces can be roughened after 24 hours at the earliest.

It is not absolutely necessary to apply an adhesive primer between base coat and decorative render or additional reinforced render with mesh inlay. An adhesive primer that matches the decorative render must be applied to rafted surfaces.

Render reinforcement/ additional mesh:

To minimise the risk of render cracks, apply a reinforced base coat with full-surface mesh on the lightweight render, e.g. with "Capatect Klebe- und Armierungsmasse 170" or "Capatect Klebe- und Armierungsmasse 133 LEICHT" with mesh embedding of "Capatect Gewebe 650". The minimum layer thickness is 4 mm. A total layer thickness of base coat and reinforced base coat of at least 15 mm must be observed. The diagonal mesh is placed in the additional base coat layer under the surface mesh.

Alternatives:

The tensile strength of the render system can be increased by embedding a full-surface mesh (Capatect Gewebe 666) in the upper third of the lightweight base coat.

For substrate consolidation in case of material changes, e.g. roller shutter boxes, window corners, ceiling edges, mixed masonry and similar, a partial surface base coat e.g. with Capatect Klebe- und Armierungsmasse 133 light with Capatect Gewebe 650 or 666 in min. 5 mm thickness can be applied to the substrate in case of thin-layer finishing render.

In case of thick-layered finishing renders, the partial surface mesh can also be applied in the base coat. It may show despite careful execution.

Taking critical account of the base coats and the expected demands on the surface, a project-specific agreement must be made between the client and contractor for these finishes. The agreement should be made in writing.

Edelkratzputz

When using "Capatect Edelkratzputz" as finishing render, a reinforced base coat ("Capatect Klebe- und Armierungsmasse 133 LEICHT" with mesh embedding of "Capatect Gewebe 650") must be applied on top of the base coat. It must be combed through horizontally with a notched trowel approx. 5 x 5 mm.

Aerated concrete substrates

To minimise the risk of render cracks, apply a reinforced base coat with full-surface mesh insert on the lightweight render.

Alternatively, "Capatect GUP FL 200" can be applied under finishing renders on aerated concrete blocks min. PP2-035 with $\lambda \geq 0,08$ W/(m-K) according to suitability test with full-surface fabric insert (Capatect Gewebe 666) in the upper third in min. 15 mm thickness. The diagonal mesh is placed in the upper third of the base coat under the surface mesh.

Taking critical account of the base coats and the expected requirements on the surface, a project-specific agreement must be made between the client and contractor for these finishes. The agreement should be made in writing.

A reinforced base coat with full-surface fabric insertion on the base render is to be applied in case of highly exposed layers, finishing renders with grain size < 2 mm, considerable irregularities, increased residual moisture in the base, in case of increased requirements.

Application of corner beads:

Insert corner bead adapted to layer thickness, e.g. "Capatect Gewebe Eckschiene Y-Form 658", into base coat (see delivery programme).

Accessories plinth area:

Depending on the substrate, e.g. "Capatect GUP SLP 201", "Capatect GUP SockelFix 211" or "Capatect ArmaReno Sockel" can be used. In areas with increased moisture load, profiles made of corrosion-resistant material (e.g. stainless steel, plastic) must always be installed.

Consumption

approx. 0.9 kg/m² and mm layer thickness.

These consumption figures are approximate values. Deviations depending on the object or processing must be taken into account.

Application Conditions

During The application and in the drying phase, the ambient and substrate temperatures must not be below +5 °C and above +30 °C.

Do not apply in direct sunlight, strong wind, fog or high humidity. In this context, we refer to the leaflet "Verputzen, Wärmedämmen, Spachteln, Beschichten bei hohen und tiefen Temperaturen" (Rendering, Thermal Insulation, Filling, Coating at High and Low Temperatures) from the Bundesverband Ausbau und Fassade (Federal Association for Finishing and Facades).

In case of unfavourable weather conditions, suitable measures must be taken to protect the processed façade surfaces.

Drying/Drying Time

Approximate value: One day per mm application thickness of the base coat and, if applicable, the additional base coat layer.

Depending on temperature, relative humidity and application quantity.

The render must be sufficiently hardened before recoating.

Tool Cleaning

Immediately after use with water.

Example for Machine Equipment

Machines / equipment e.g:

PFT mixing pump G4

Screw casing: D6-3

Screw conveyor: D6-3

Mortar hoses: Ø 25 mm, Ø 35 mm

Wet mortar delivery distance: up to 20 m, up to 30 m

Please request special information on machine application.

Advice

Special Risks (Hazard Note) / Safety Advice (Status as at Date of Publication)

Causes skin irritation. Causes severe eye damage. May cause respiratory irritation. If medical advice is needed, have packaging or label at hand. Keep out of the reach of children. Do not breathe dust or mist. Use only outdoors or in well-ventilated areas. Wear protective gloves/eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if possible. Continue rinsing. Call a POISON CENTRE/doctor immediately. Keep under lock and key. Contains: Cement, Portland, chemicals, calcium dihydroxide, chimney dust, Portland cement. Aqueous cement slurries have an alkaline effect.

VOC content according to RL 2004/42/EC < 1 g/l.

Declaration of ingredients according to VdL guideline 01: Cement, calcium hydroxide, additives.

Disposal

Empty containers should be taken to an approved waste management facility for recovery or disposal. disposal. Can be landfilled after concentration, when in compliance with local regulations. EWC 170904

Giscode

ZP1

CE Labelling

Note on declaration of performance / CE marking:

The marking with the CE symbol as per DIN EN 998-1 is placed on the package as well as the data sheet for the service declaration / CE marking, which can be accessed on the Internet at www.caparol.de.

Other Notes

Further advice:

TECHNICAL INFORMATION NO. 200

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All suggestions and application instructions herein are based on our latest technical experience. Due to the wide variety of individual project conditions, we cannot be held responsible for their content. These instructions do not release the purchaser/ applicator from his responsibility to determine the suitability of the product in consideration of the project characteristics. These instructions are to be considered void when a new edition is released. Our general conditions of sale and delivery in their latest edition apply. This document is a translation of our German Technical Information No.200 · Capatect GUP FL 200 · Issued: April 2022

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