

Capatect Mineral-Leichtputze

Mineral based dry mortar premix as per EN 998-1

Can be used as render and/or plaster for rub and/or scratched structures as finishing coats



Product Description

Field of Application	Mineral lightweight render according to DIN EN 998-1 in the Capatect façade systems, as well as on all load-bearing mineral wall and ceiling surfaces indoors and outdoors e.g. the Capatect interior insulation systems or the render systems for monolithic construction. Do not use on surfaces subject to extremely high mechanical loads.
Material Properties	<ul style="list-style-type: none"> ■ Smooth and easy processing due to lightweight supplements ■ Highly permeable to water vapour ■ Free of fungicides and algacides ■ Very economical due to very favourable consumption, as well as fast application ■ Low in tension ■ Water-repellent
Packaging/Package Size	Bag 25 kg Big-Bag Silo
Colours	Natural white and as factory colouring. The material must be checked for colour accuracy before application. Colour complaints can no longer be accepted after processing. Please refer to the VDPM's "Leitfaden zu Prüfpflichten bei Anlieferung von Tönware im Rahmen der Untersuchungs- und Rügepflicht (§ 377 HGB)" ('Guidelines on Inspection Obligations upon Delivery of Tinted Goods within the Scope of the Duty to Inspect and Give Notice of Defects (§ 377 HGB)'). On contiguous surfaces, only use material from the same charge or mix material from different charges beforehand. Due to tinting, deviations in the technical characteristics are possible.
Storage	Dry, protected from moisture, in original sealed packaging. Application within 12 months.
Technical Data	Lightweight plaster mortar (LW type II) according to DIN EN 998-1



- Density: $\rho \leq 1,3 \text{ g/cm}^3$
- Heat conductivity: $\lambda_{10, \text{dry, mat}} \leq 0.45 \text{ W/(m}\cdot\text{K)}$ for P=50% according to DIN EN 1745
 $\lambda_{10, \text{dry, mat}} \leq 0.49 \text{ W/(m}\cdot\text{K)}$ for P=90% according to DIN EN 1745
- Resistance-count for diffusion μ (H₂O): $\mu \leq 20$ according to DIN EN 1015-19
- Compressive strength: Category CS II according to DIN EN 998-1
 $1.5 \text{ N/mm}^2 - 5.0 \text{ N/mm}^2$ according to DIN EN 1015-11
- Fire behaviour: Class A2-s1, d0 according to DIN EN 13501-1 (noncombustible)
- Consistency: Powder form
- Vehicle / Binding agent: Mineral binders according to DIN EN 197-1 and DIN EN 459-1 with silicate additives
- Capillary water absorption: Category W_c2 according to DIN EN 998-1
 $C \leq 0.20 \text{ kg/(m}^2\cdot\text{min}^{0.5})$ according to DIN EN 1015-18

Product No.

Product	Texture	Grain Size (mm)	approx. Consumption (kg/m ²)	Water addition per bag (25 kg)
R30	rub	3.0	2.8	7.0 l
R50	rub	5.0	3.6	6.5 l
K10	scratch	1.0	1.8	6.5 l
K15	scratch	1.5	1.9	6.5 l
K20	scratch	2.0	2.3	7.0 l
K30	scratch	3.0	2.9	7.5 l
K40	scratch	4.0	3.8	7.0 l
K50	scratch	5.0	4.4	7.0 l

The consumption data are approximate values without bulk and shrinkage loss. Object-dependent or processing-related deviations must be taken into account.

Note

The data given represents average values, which may vary slightly from delivery to delivery due to the use of natural raw materials.

The "allgemeine bauaufsichtliche Zulassung" (general building authority approval) / "allgemeine Bauartgenehmigung" (general type approval) of the ETICS, VHF or the products and the Technical Information of the products must be observed.

Application

Suitable Substrates

- Mineral-based renders
- Mineral-based substrates in ETICS

Substrate Preparation

Mask window sills and add-on parts. Carefully cover glass, ceramics, clinker, natural stone, painted, glazed and anodised surfaces as well as surfaces to be protected.

The substrate must be stable, even, clean, dry, frost-free and free of adhesion-reducing residues. If necessary, the load-bearing capacity can be ensured by using suitable primers. Substrates, especially base coats, must be evenly dried to avoid colour deviations in the finishing render.

For better workability, we recommend priming with *Putzgrund 610* before applying the decorative render.

Method of Application

Thin-layer finishing renders with grain sizes < 3 mm may require special measures, e.g. priming, levelling filler, painting.

Apply the render over the entire surface using a stainless steel trowel and smooth it down to the grain. Immediately afterwards, use a plastic trowel or a plastic float to spread it evenly in a circular motion. You can structure the scraped render horizontally, vertically or in a circular pattern.

The choice of tool influences the roughness profile of the surface, so always work with the same textured discs.

Finish contiguous surfaces without interruption to avoid build-up in the textured layer. Divide large façades into sections, wet-on-wet apply and texture continuously.

TECHNICAL INFORMATION NO. 135

Application Conditions	<p>During the application and in the drying phase, the ambient and substrate temperatures must not be below +5 °C and above +30 °C.</p> <p>Do not apply in direct sunlight, strong wind, fog or high humidity. Please 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 Façades).</p> <p>In unfavourable weather conditions, take suitable measures to protect the facade surfaces being treated.</p>
Drying/Drying Time	<p>Primer and intermediate coats must be dry before further application.</p> <p>The waiting time for recoating depends, among other things, on the weather conditions and the layer thickness. Dark colours of the finishing render may require special measures (e.g. longer drying times for finishing render, primers, scaffolding tarpaulins for protection, etc.).</p> <p>■ Reference value for waiting time at 20° C and 65% relative humidity: at least 1 day per mm of layer thickness, but at least 7 days.</p> <p>An additional priming coat of <i>CapaGrund Universal</i> reduces the risk of lime efflorescence.</p>
Tool Cleaning	<p>Rinse with water immediately after use in accordance with legal regulations.</p>
Coating	<p>Due to their special properties, deviations in colour shade and staining cannot always be avoided with coloured mineral renders. This does not constitute a technical-functional defect and cannot be objected to.</p> <p>To avoid colour unevenness, coat the render after it has dried thoroughly with a suitable facade paint or at least with an equalisation coat (e.g. <i>Sylito® Finish 130</i>).</p> <p>The risk of infestation by microorganisms can be significantly reduced by applying a facade paint with film protection.</p> <p>If the brightness reference value (HBW) is below 20, the render in ETICS must be coated with at least two layers of a solar-reflective façade paint with TSR value ≥ 25 (e.g. <i>CoolProtect</i>) after it has dried completely, depending on the requirements.</p> <p>Special measures are to be taken for LRV < 30 on solid wall structures, e.g. an additional reinforced base coat with full-surface fabric inlay on the lightweight render, and for LRV < 20, an additional solar-reflecting facade paint with TSR ≥ 25.</p> <p>Note the limits of feasibility in the respective system.</p>
Example for Machine Equipment	<p>Characteristics</p> <p>Flow mixer++ Flow mixer + feed pump++ Feed pump--Mixing pump++ Dry feed system-</p> <p>Hose diameter, start, internal 35 mm Hose diameter, end, internal 25 mm Conveying distance, max. 50 m Conveying height, max. 20 m Sprayer Nozzle diameter 8-16 mm</p> <p>Pre-flush delivery hoses with lime slurry or paste before regular operation.</p> <p>If work is interrupted, do not leave the delivery hose in direct sunlight, cover the material container with foil, for example, and keep the gun and nozzle under water. Stand for max. 30 min. until further processing, otherwise the material in the hose may harden.</p> <p>Before a work break, the material container in the feed pump of the 'open system' (continuous mixer + feed pump) must be emptied as far as possible to prevent material tunnelling when restarting. If this is not observed, the material may have to be made 'passable' before the machine is started up (with the machine switched off).</p> <p>Follow the machine manufacturer's instructions.</p> <p>It is recommended to seek advice on the use of silo and machine technology.</p> <p>Further information on this can be found in the Caparol "Handbuch der Spritztechnologie" (Spray Technology Manual).</p>

Advice

This publication does not cover all substrates that may occur in practice and their technical treatment. If substrates are to be treated that are not listed in this technical information, it is necessary to consult with us or our field staff. We are happy to provide you with detailed and object-related advice.

German Approvals

Z-31.1-171
Z-33.41-130
Z-33.41-1706
Z-33.42-1739
Z-33.43-132
Z-33.43-606
Z-33.43-1707
Z-33.44-133
Z-33.47-859

ETA

ETA-12/0383
ETA-08/0304
ETA-10/0436
ETA-11/0300

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

Causes skin irritation. Causes serious eye damage. Wash skin thoroughly after handling. Wear protective gloves/ eye protection/ face protection. IF ON SKIN: Wash with plenty of water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor. If skin irritation occurs: Get medical advice/ attention. Take off contaminated clothing and wash it before reuse.

Contains: White cement, Portland, chemicals, calcium dihydroxide.

For commercial/industrial applications. Aqueous cement suspensions have an alkaline effect.

GISCODE: ZP1.

VOC content in accordance with Directive 2004/42/EC: **This product contains max. 1 g/l VOC.**

Declaration of ingredients according to VdL directive 01 (Germany): Cement, Calcium hydroxide, polyvinylacetate resin, calcium carbonate, silicates, mineral pigments / fillers, additives.

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