

# Capatect Mineral-Leichtputze Types R and K

Mineral based dry mortar premix as per EN 998-1;  
Render finishes for exterior and interior use.



## Product Description

Field of Application	<p>Premix of mineral lightweight render (structure type R &amp; K, available in different grain sizes) as finishing coat on Capatect ETICS* A and B, Capatect-VHS (ventilated cladding system), and suitable to finalise uncoated concrete and mineral based new or existing mineral plasters in mortar groups PII and PIII as per DIN 18550, EN998-1 or the like.</p> <p>Can also be used for internal insulation systems (IWI).</p> <p>Note: Do not apply on substrates with salt efflorescence or substrates made of wood or plastic.</p> <p>* ETICS = External Thermal Insulation Composite System <i>Brit. term:</i> External Wall Insulation (EWI) systems <i>Amer. term:</i> EIFS = Exterior Insulation Finishing System</p>
Material Properties	<ul style="list-style-type: none"> <li>■ Reaction to fire (German classification): "nichtbrennbar" (non-combustible) or "schwerentflammbar" (flame retardant), depending on the structure of applied Capatect ETICS or VHF/Cladding system.</li> <li>■ Water vapour permeable.</li> <li>■ Easy application, ductile due to lightweight aggregates.</li> <li>■ Highly efficient due to low consumption and easy application.</li> <li>■ Ecologically compatible.</li> <li>■ Vehicle: White cement and white calcium hydroxide with organic additives for water-repellency, easy application and proper adhesion.</li> </ul>
Packaging/Package Size	25 kg bag, 600 kg OneWayContainer (OWC), 1000 kg container, 1000 kg BigBag (900 kg for R30)
Colours	<p>Natural white.</p> <p>Can be tinted by the manufacturer down to luminosity <math>\geq 30</math> according to colour guides CaparolColor or Caparol 3D System.</p> <p>For more intense colour shades with a luminosity <math>&lt; 30</math> bis <math>\geq 20</math> paint with Syllitol-Finish 130. (Luminosity <math>&lt; 20</math> is unsuitable for Capatect ETICS)</p> <p>Note: Depending on weather conditions tinted mineral renders may appear non-uniform (blushing) after drying. This does not cause any technical or functional deficiency and cannot be objected. To avoid colour deviation, paint tinted render additionally with Syllitol-Finish 130 in the matching colour shade.</p>
Gloss Level	Matt
Storage	<p>Cool, dry and frost-free.</p> <p>Protect from direct sunlight. Empty silos and container before extended downtimes (winter break). Shelf life of the original, tightly closed packaging: min. 12 months.</p>
Technical Data	<ul style="list-style-type: none"> <li>■ Diffusion-equivalent air layer thickness <math>s_{d, H_2O}</math>: 0.07–0.30 m as per DIN EN ISO 7783-2</li> <li>■ Consistency: Powder form.</li> <li>■ Capillary water absorption: <math>w &lt; 0.5 \text{ kg/m}^2</math> after 24 h, as per DIN 1609</li> <li>■ Compression hardness: <math>&gt; 6 \text{ N / mm}^2</math> as per DIN EN 998-1</li> </ul>



Product No.

Product	Texture	Grain size [ mm ]	Approx. Consumption*[kg/m <sup>2</sup> ]
Capatect Mineral-Leichtputz R30	corrugated	3.0	2.5
Capatect Mineral-Leichtputz R50	corrugated	5.0	3.5
Capatect Mineral-Leichtputz K20	scratch/plate texture	2.0	2.4
Capatect Mineral-Leichtputz K30	scratch/plate texture	3.0	2.8
Capatect Mineral-Leichtputz K50	scratch/plate texture	5.0	4.4

\* Without spilling or loss on site. May vary according to substrate or application conditions. The exact rate of consumption is best established by a trial application.

## Application

Suitable Substrates

Reinforcement layers of Capatect ETICS A and B and ventilated cladding systems; uncoated concrete, mineral based new or existing mineral render of mortar group PII and PIII as per DIN 18550.

Substrate Preparation

**Reinforcement layer:** Fresh prepared reinforcement layers are ready for application after complete curing. Prime weathered reinforcement layers with Capatect-Putzgrung 610. More weathered layers might need priming with Sylitol-Konzentrat 111 depending on absorption properties.

**Uncoated concrete, mineral render:** The substrate must be even, clean, dry, solid, sound/stable and free from all substances that may prevent good adhesion.

Remove mildew, moss or algal attack by water jet cleaning in compliance with the regulations, followed by priming with Capatox and allow to dry well.

Clean surfaces contaminated with industrial gases or soot by water jet containing a suitable cleaning agent in compliance with the regulations. To reduce the risk of staining on coloured render/plaster, assure uniform drying of the substrate.

**For other cases:** See Technical Information "Untergründe und deren Vorbehandlung" / "Substrates and their Preparation"

Method of Application

Apply freshly prepared mortar by stainless steel trowel or suitable spraying equipment (for fine render application) homogeneously to the complete surface and rub down to the particle size. Then treat the surface with a PU board or a wooden trowel, a sponge- trowel or a plastic board by circularly, vertically or horizontally smoothing.

The surface roughness depends on the used tool. Always use the same type of tool to achieve a uniform texture. To achieve a uniform texture, continuous surfaces should always be finished by the same craftsman (avoiding texture differences through different techniques). To avoid lapping, a sufficient number of workers should be present on each level of the scaffolding. Apply wet-on-wet and without interruption.

Being natural products, the aggregates and fillers may occasionally cause slight differences in colour. It is therefore recommended to use only material marked with identical batch numbers or, if using material from different batches, to mix the entire quantity needed in advance.

Surface Coating System

Priming or intermediate coats must be cured before any further application.

Application Conditions

**Processing temperature:**

+ 5 °C to + 30 °C during application and curing for material, atmosphere and substrate.

Do not apply on sun heated substrates, during strong wind, fog or rain, high relative humidity or imminent rain and frost.

Drying/Drying Time

Cured and recoatable after approx. 2 weeks (at +20 °C / 65 % RH). Additional priming with CapaGrund Universal minimizes the risk of efflorescence and the finishing render/plaster is recoatable after approx. 7 days. The render/plaster dries by hydration and physically, i.e. by evaporation of water. Lower temperatures and higher relative humidity extend the drying times.

Tool Cleaning

Immediately after use with water.

## Material Preparation

Capatect Mineral-Leichtputz can be prepared with all common types of flow mixers, spiral pumps and plaster machines.

**For manual preparation** pour the mortar premix into the required amount of cold tap water while mixing thoroughly with a suitable low-speed electric paddle until the mixture is free of lumps. Allow the mortar to rest for about 5 minutes, then stir again. If necessary, adjust to working consistency by adding water.

**Water consumption per 25 kg bag:**

Capatect Mineral-Leichtputz R 30: approx. 9 l  
 Capatect Mineral-Leichtputz R 50: approx. 10-11 l  
 Capatect Mineral-Leichtputz K 20: approx. 7.5 l  
 Capatect Mineral-Leichtputz K 30: approx. 8 l  
 Capatect Mineral-Leichtputz K 50: approx. 7.7 l

Depending on weather conditions, pot life is approx. 1 to 1½ hours. For machine use, the maximum lifetime in the hose is 30 minutes. Already hardened (slightly stiff) material must not be made pliable by adding water and cannot be used.

## Example for Machine Equipment

**Follow the guidelines of the machine manufacturer!**

**Electric-supply:** Each 400 V rotary current /16 A (building current distributor with ELCB protection switch)

**Water supply:** 3/4" hose with GEKA connector, minimum 2.5 bar water pressure is required for the running machine

**Flow of water:**

CT Mineral-Leichtputz R30: approx. 420 l/h    CT Mineral-Leichtputz R50: approx. 450 l/h  
 CT Mineral-Leichtputz K20: approx. 375 l/h    CT Mineral-Leichtputz K30: approx. 360 l/h  
 CT Mineral-Leichtputz K50: approx. 340 l/h

The desired consistency can be set by the fine-regulating valve in the water-fitting of the mixer.

Note: Water consumption should be adjusted, if necessary. Especially for tinted renders/plasters consumption may vary. Always use the same amount of water to avoid irregularities in texture and shade.

**Feed tubes:** First tubes - interior Ø 35 mm, 13.3 m each, end tube-interior Ø 25 mm, 10.0 m  
 Rinse the feed tubes before regular operation with lime slurry or paste

**Max. range:** Approx. 50 m (should be optimised depending on temperature and building conditions)

**Spraying unit:** Nozzle size

CT Mineral-Leichtputz R30: 12 mm    CT Mineral-Leichtputz R50: 14 mm  
 CT Mineral-Leichtputz K20: 10 mm    CT Mineral-Leichtputz K30: 12 mm  
 CT Mineral-Leichtputz K50: 14 mm

**Examples:**

Flow mixer Berö Calypso 15 with standard portioning or mixing spindles and feed pump.  
 Berö Speedy 15 with screw-conveyor 1/1 output.  
 Compressor V-Meko 400

## Advice

Under normal loads and conditions Capatect Mineral-Leichtputz provides the necessary protection against algae or fungal (fungi/mildew/mould) attack. If a more extensive, preventive protection is desired, a double coat of ThermoSan is required.

If necessary, cover the scaffoldings with tarpaulins to protect the surface from rain during the drying phase. Follow national or local regulations and specifications for application of mineral based mortars.

Protect carefully the environment of the surface to be coated, in particular, glass, ceramics, paint, brick, natural stone, metal and natural stone or varnished/stained/glazed wood. Wash off spills/splatters immediately with plenty of water. Do not apply Capatect-Mineral-Leichtputz on horizontal surfaces exposed to water/permanent moisture.

Optional, depending on weather conditions and absorbency: Prime thoroughly cured reinforcing layers with Syllitol-Konzentrat 111 (diluted with tap water in a 2:1 ratio) before applying Capatect-Mineral-Leichtputz.

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

Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. Do not breathe dust or mist.

Keep out of reach of children. Wear protective gloves/ protective clothing/ eye protection/ face protection. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/ attention. The areas adjoining the surface to be coated must be carefully masked, in particular glass, ceramics, enamel/varnish coating, clinkers, natural stones, wood and metals. Wash splashes immediately and completely with plenty of clean water. Contains cement.

Disposal

Can be landfilled after concentration, when in compliance with local regulations. Empty containers should be taken to an approved waste. EWC 170903

Risk and Transportation Markings

See Material Safety Data Sheet (MSDS).

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## Technical Information No.135 · Issue: October 2016

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.135 · Capatect Mineral-Leichtputze  
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