

# Capatect Klebe- und Armierungsmasse 133 Leicht

Mineral adhesive and base coat for use in Capatect façade systems



## Product Description

Field of Application	Mineral lightweight render mortar for the use as adhesive and base-coat for facade insulation boards based on mineral wool and polystyrene, as well as on mineral substrates with sufficient load-bearing capacity. Can be used in layer thicknesses of 4-11 mm depending on the insulation material and system used.	
Material Properties	<ul style="list-style-type: none"> <li>■ Mineral light render mortar according to DIN EN 998-1</li> <li>■ Weather resistant and water repellent</li> <li>■ Highly permeable to water vapour</li> <li>■ Extremely low tension</li> <li>■ High mechanical strength</li> <li>■ Very good application by machine</li> <li>■ Good stability and long open time for processing</li> <li>■ Tuned with additives for water repellency, easy application and good adhesion.</li> </ul>	
Packaging/Package Size	25 kg Bag, 1,0 t Big Bag, 5,0 t Silo	
Colours	Natural white	
Storage	Dry, frost-free, protect from direct sunshine. Containers & silos must be completely emptied before longer work breaks (e.g. during winter period). Shelf life of original sealed containers: approx. 12 months.	
Technical Data	<ul style="list-style-type: none"> <li>■ Heat conductivity:</li> <li>■ Resistance-count for diffusion <math>\mu</math> (H<sub>2</sub>O):</li> <li>■ Diffusion-equivalent air layer thickness <math>s_d</math>H<sub>2</sub>O:</li> <li>■ Compressive strength:</li> <li>■ Apparent density of hardened mortar:</li> <li>■ Fire behaviour:</li> <li>■ Vehicle / Binding agent:</li> <li>■ Capillary water absorption:</li> </ul>	<p>0.27 W/(m•K)</p> <p><math>\mu \leq 10</math> according to DIN EN 998-1</p> <p><math>s_d</math>: approx. 0,04 m according to DIN EN ISO 7783</p> <p>Class CS II according to DIN EN 998-1</p> <p>Approx. 1.0 g/cm<sup>3</sup> according to DIN EN 998-1</p> <p>A2-s1, d0 according to DIN EN 13501</p> <p>Mineral based binder according to DIN EN 197-1 and DIN EN 459-1</p> <p>Approx. 0.18 kg/(m<sup>2</sup> · h<sup>0.5</sup>) according to DIN 52617</p>
Product No.	133	



## Application

Substrate Preparation	<p>Cover the scaffoldings with tarpaulins to protect the surface from rain during the drying phase, if necessary. Follow national or local regulations and specifications for applying mineral based mortars. In Germany: Observe DIN 18550-1 and DIN 18350, VOB, Part C during application and execution.</p>
Preparation of Material	<p>Masonry, concrete and adherent paint coatings must be clean, dry and sound/stable. The substrate must be free of all material that may prevent good adhesion (e.g. formwork oil residues, impurities). Remove overhanging mortar burrs.</p> <p>Remove unsound, peeling off paint coatings and textured renders as far as possible. Cut off openings in render/plaster coatings and replaster the area flush with the surface. Clean strongly absorbent, sanding or chalking surfaces thoroughly to the solid substrate and prime with concentrate "Sylitol-Konzentrat 111".</p>
Consumption	<p>"Capatect Klebe- und Armierungsmasse 133 Leicht" can be applied with all common continuous mixers, screw feed pumps and rendering machines, but can also be mixed manually with a powerful, slow-running agitator using clean, cold water to form a lump-free compound. Allow to mature for approx. 5 minutes and stir again briefly. If necessary, adjust the consistency with a little water after this maturing time. Water requirement approx. 8-9 l per 25 kg bag.</p> <p>Depending on weather conditions, the working time is approx. 2 to 2.5 hours (pot life) for manually raised material and a maximum of 60 minutes for mechanically conveyed material. Do not use water to make already stiffened material workable again.</p> <p><b>Levelling filler:</b> approx. 1.5-2.0 kg/m<sup>2</sup></p> <p><b>Adhesive:</b> approx. 3.0-3.5 kg/m<sup>2</sup> --- Partial surface bonding (rail system) approx. 4.0-5.0 kg/m<sup>2</sup> --- Bead-dot method</p> <p><b>Base coat:</b> Per mm layer thickness approx. 1.1 kg/m<sup>2</sup>. Corresponds to approx. 5.5 kg/m<sup>2</sup> for 5 mm layer thickness. These consumption data are approximate values; object-dependent or processing-related deviations must be taken into account.</p>
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. 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).</p>
Drying/Drying Time	<p>At 20 °C and 65 % relative humidity, the base coat is surface-dry after 24 hours. The through-drying time is 1 day per mm application thickness.</p> <p>Capatect-Klebe- und Armierungsmasse 133 Leicht dries by hydration and physically, i.e. by evaporation of the mixing water. Particularly in the cool season and in high humidity, drying is therefore delayed.</p>
Tool Cleaning	<p>Immediately after use with water.</p>
Example for Machine Equipment	<p>Continuous mixer Berö Calypso 15 with standard dosing or mixing shaft and feed pump Berö Speedy 15 with worm section 1/1 capacity.</p> <p><b>Important data:</b> Please be sure to observe the machine manufacturer's guidelines!</p> <p><b>Electrical connection:</b> 400 V three-phase/16 A in each case (site power distributor with FI circuit breaker).</p> <p><b>Water connection:</b> Hose 3/4" with GEKA, required water pressure with machine running at least 2.5 bar</p> <p><b>Water flow:</b> Approx. 330 l/h The desired consistency is to be set on the fine adjustment valve of the mixer's water fitting.</p> <p><b>Delivery hoses:</b> Initial hoses - inner-Ø 35 mm, 13.3 m each End hose - inner-Ø 25 mm, 10.0 m</p> <p><b>Conveying distances:</b> Maximum delivery distance approx. 50 m (to be optimised depending on the object and temperature).</p> <p><b>Sprayer:</b> Nozzle-Ø 10 mm Pre-rinse delivery hoses with lime slurry or paste before regular operation!</p>

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## Reinforcement Layer

(hand or machine application)

After applying the edge protection at window reveals and edges, as well as the diagonal mesh at the corners of façade openings, apply the base coat in the width of the mesh strips and press in the "Capatect Gewebe 650/110" or alternatively the "Capatect Gewebe 666/110" with an overlap of at least 10 cm and smooth the surface. The possible use of "Capatect Gewebe 666/110" must be checked against the underlying general building approval prior to execution. Ensure that the mesh is embedded "mortar-enclosed" and lies approximately in the outer third of the base coat.

The material must be applied in an even layer thickness of at least 5 mm and max. 10 mm.

For systems with mineral wool insulation boards, a levelling filler is recommended to level the insulation board surface.

If "Capatect Edelkratzputz K40" is to be applied subsequently, a layer thickness of 8 mm must be applied. Comb the still wet surface horizontally with a 6 mm notched trowel.

## Bonding of Insulation Boards

### **Bead-dot method:**

Apply the adhesive all around the edge in approx. 5 cm wide strips, in the middle of the board 3 palm-sized clumps on the back of the board (adhesive contact area  $\geq 40\%$ ).

### **Full-surface bonding technique (pre-coated mineral wool lamella insulation boards):**

Apply the adhesive by machine to the substrate to a thickness of approx. 10 mm. Immediately before applying the insulation boards, comb on the adhesive with a notched trowel (the width and depth of the teeth depends on the condition of the substrate). Immediately press the insulation boards into the fresh adhesive bed, float them in and press them into place.

To avoid skin formation, only apply as much adhesive as can be laid immediately.

### **Point method (rail system):**

Apply adhesive to the back of the insulation boards in dots (approx. 20 % of the surface). Only for rail fastening.

## Advice

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

Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Do not breathe dusts or mists. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection. 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. Store locked up.

Additional information: Wear long trousers. Avoid prolonged skin contact with the render. Immediately clean affected skin thoroughly with water. The longer fresh render remains on your skin, the greater the risk of serious skin damage. It is essential to follow the manufacturer's health and safety instructions during the application phase.

### Disposal

Only empty containers (trickle-free) should be sent for recycling. Can be landfilled after concentration, when in compliance with local regulations.

### Risk and Transportation Markings

See Material Safety Data Sheet (MSDS).

### Giscode

ZP1

### Approval

#### **Approvals and assessments**

##### **German:**

Z-33.41-130 Z-33.43-132 Z-33.44-133

Z-33.42-1739 Z-33.47-859

##### **European:**

ETA-12/0383 ETA-07/0184 ETA-08/0304

ETA-10/0436 ETA-09/0368

### CE Labelling

#### Note on CE marking

The CE mark according to EN 998-1 or EN 15824 is affixed to the container and to the data sheet for CE marking, which can be downloaded from the Internet at [www.caparol.de](http://www.caparol.de).

### Customer Service Centre

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International Distribution: Please see [www.caparol.com](http://www.caparol.com)

## Technical Information No. 133 · Issue: August 2023

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.133 · Capatect Klebe- und Armierungsmasse 133 Leicht · Issued: April 2023