

# 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 EPS, 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>■ 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	Bag 25 kg BigBag Silo
Colours	Natural white
Storage	Dry, protected from moisture, in original sealed packaging. Application within 12 months.
Technical Data	<p>Lightweight plaster mortar (LW) according to DIN EN 998-1</p> <ul style="list-style-type: none"> <li>■ Density: <math>\rho \sim 1,1 \text{ g/cm}^3</math></li> <li>■ Heat conductivity: <math>\lambda_{10, \text{dry, mat}} \leq 0,25 \text{ W/(m}\cdot\text{K)}</math> for P=50% according to DIN EN 1745 <math>\lambda_{10, \text{dry, mat}} \leq 0,27 \text{ W/(m}\cdot\text{K)}</math> for P=90% according to DIN EN 1745</li> <li>■ Resistance-count for diffusion <math>\mu \text{ (H}_2\text{O)}</math>: <math>\mu \leq 20</math> according to DIN EN 1015-19</li> <li>■ Compressive strength: Category CS II according to DIN EN 998-1 <math>1.5 \text{ N/mm}^2 - 5.0 \text{ N/mm}^2</math> according to DIN EN 1015-18</li> <li>■ Adesive tensile strength: <math>f_{tHZ} \geq 0.08 \text{ N/mm}^2</math> according to DIN EN 1015-12 Fracture pattern A, B or C</li> <li>■ Fire behaviour: Class A2-s1, d0 according to DIN EN 13501-1 (noncombustible)</li> <li>■ Vehicle / Binding agent: Mineral based binder according to DIN EN 197-1 and DIN EN 459-1</li> <li>■ Capillary water absorption: Category WC2 according to DIN EN 998-1 <math>C \leq 0.20 \text{ kg/(m}^2\cdot\text{min}^{0.5})</math> according to DIN EN 1015-18</li> </ul>
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Note	<p>Specified fixed values represent average values that may vary slightly from delivery to delivery due to the use of natural raw materials.</p> <p>The "allgemeine bauaufsichtliche Zulassung" (general building authority approval) / "allgemeine Bauartengenehmigung" (general type approval) of the ETICS, VHF or the products and the Technical Informations of the products must be observed.</p>
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## Application

Suitable Substrates	<p>Mineral substrates identical to new substrates, solid old renders, wood and panel materials, as well as sound old coats or coatings or substrates in accordance with the specifications of the ETICS approvals.</p>
Substrate Preparation	<p>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.</p> <p>The substrate must be solid, dry, free of grease and dust and, if necessary, have sufficient load-bearing capacity for the use of anchors. Contamination and substances with a separating effect (e.g. formwork oil) as well as protruding mortar ridges must be removed. Damaged, flaking paintwork and decorative render must be removed as far as possible. Hollow areas of rendering must be knocked off and rendered flush with the surface.</p> <p>Highly absorbent, sanding or flouring surfaces must be thoroughly cleaned down to the solid substance and primed.</p> <p>The compatibility of any existing coatings with the material must be expertly checked.</p>
Preparation of Material	<p>■ 25 kg of material (one bag) in approx. 8-9 litres of water.</p> <p>The material can be mixed to a lump-free mass using a powerful, slow-running agitator or compulsory mixer and clean, cold water. Work through again after approx. 3-5 minutes. If necessary, adjust the consistency with a little water after this maturing time. Depending on the weather, the working time is approx. 1.5 hours (pot life). Do not use water to make material that has already hardened workable again.</p>
Consumption	<p><u>Bonding of insulation boards</u> approx. 3.5 - 5.0 kg/m<sup>2</sup></p> <p><u>Base coat</u> approx. 1.1 kg per mm layer thickness per m<sup>2</sup> (e.g. corresponds to approx. 5.5 kg/m<sup>2</sup> for 5 mm layer thickness)</p> <p>These consumption figures are approximate values. Deviations depending on the object or processing conditions must be taken into account.</p> <p><u>Layer thickness of the base coat</u> 4-11 mm</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). In unfavourable weather conditions, suitable measures must be taken to protect the treated façade surfaces.</p>
Drying/Drying Time	<p>Primer and intermediate coats must be dry before further application. The waiting time for recoating depends, among other things, on the weather conditions and the layer thickness. The specifications refer to ambient temperatures of 20 °C and 60 % relative humidity and serve as a guide. Any necessary dowelling or base coat should only be applied after the adhesive bed has sufficiently solidified. Dark colours of the finishing render may require special measures.</p> <p><u>Waiting time after bonding</u></p> <p>■ Dowelling at least 24 hours</p> <p>The base coat must be sufficiently evenly dried.</p> <p><u>Waiting time after base coat</u></p> <p>■ Mineral finishing renders at least 1 day per mm layer thickness, but at least 2 days ■ Paste-like finishing renders at least 5 days</p>
Tool Cleaning	<p>Rinse with water immediately after use in accordance with legal regulations.</p>
Example for Machine Equipment	<p>■ Continuous mixer e.g. inoMIX F51 or m-tec D10 ■ Feed pump e.g. m-tec P 25 V ■ Mixing pump e.g. InoCOMB Maxi power or PFT G4</p>

## Delivery hoses:

Start hoses, inner  $\varnothing$  35 mm; end hose, inner  $\varnothing$  25 mm

## Conveying distances:

Maximum delivery distance approx. 50 m; delivery head 20 m (depending on temperature)

## Sprayer:

Nozzle- $\varnothing$  8-12 mm

Pre-flush delivery hoses with lime slurry or paste before regular operation.

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.

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). Further information on this can be found in the Caparol "Handbuch der Spritztechnologie" (Spray Technology Manual).

The specifications of the machine manufacturer must be observed.

## Bonding of Insulation Boards

- Manual or mechanical application possible
- Lay insulation boards at least 10 cm staggered in a bond and join tightly
- Butt and bed joints must remain free of adhesive
- Never seal joints between insulation boards with adhesive
- Fill joints  $\leq$  5 mm with suitable flame-retardant joint foam
- Close joints and gaps  $>$  5 mm with equivalent insulation strips
- Interlock insulation materials at the corners of the building
- Ensure that the application is flush and plumb
- Pre-fill uncoated mineral wool insulation boards in the bonding area (press-filling)
- Damaged insulation boards must not be installed

## Bead-dot method

Apply a circumferential bead to the edge of the board and adhesive dots in the centre.

- Render systems - adhesive contact area  $\geq$  40 %

## Full-surface bonding

On even substrates, the adhesive can be applied over the entire surface using a notched trowel/ notched trowel. The insulation boards must be pressed, floated and pressed onto the substrate immediately, after 10 minutes at the latest, with the side to which the adhesive was applied.

Mineral wool lamella insulation boards must always be bonded over the entire surface.

## Mechanical bonding (partial surface method)

Apply the material to the substrate by machine in the form of vertical beads. The adhesive beads must be approx. 5 cm wide and at least 10 mm thick in the centre of the bead. The centre-to-centre distance must not exceed 10 cm. The insulation boards must be pressed, floated and pressed into the fresh adhesive bed immediately. To avoid skin formation, only as much adhesive surface may be applied as can be laid directly with insulation boards.

- EPS boards - adhesive contact area  $\geq$  60 %
- Mineral wool insulation boards - adhesive contact area  $\geq$  50 %

## Reinforcement Layer

To ensure a uniformly even surface and to stabilise the insulation surface of mineral wool insulation boards, we recommend levelling before applying the base coat. To do this, pre-fill a first layer with the reinforcing mortar to a thickness of approx. 2 mm and allow to dry thoroughly.

- In the corner area of building openings, additionally embed *Capatect Diagonalarmierung, Sturzeckpfeil* or fabric strips (approx. 25 x 25 cm) diagonally into the base coat.
- Insert plastering strips, corner beads and profiles into the base coat over the entire surface and align. When using *Capatect Gewebeeckschutz*, only guide the mesh strips up to the edge.
- Apply the base coat with a stainless steel trowel or by machine. Check the layer thickness with an appropriate notched trowel. The thickness of the base coat must be uniform.
- Embed the *Capatect Gewebe 650* or *666* over the entire surface so that it is centred for reinforcement layer thicknesses up to 4 mm and in the upper third above 4 mm.
- Joints of the mesh must be overlapped by approx. 10 cm.
- Subsequently fill over wet-on-wet to ensure full coverage of the mesh.

## 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. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection/ face 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. Dispose of contents/ container to an approved waste disposal plant. Contains: Cement, portland, chemicals, calcium dihydroxide, Flue dust, portland cement. Aqueous cement suspensions have an alkaline effect.

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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 German European

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  - Z-33.42-1739
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Customer Service Centre  
Tel.: +49 6154 71-71710  
Fax: +49 6154 71-71711  
e-mail: kundenservicecenter@caparol.de

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

## Technical Information No. 133 · Issue: October 2024

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: July 2024