

# Capatect Klebe- und Armierungsmasse 131 SL

Mineral adhesive and reinforcement mortar with organic lightweight aggregates (EPS)



## Product Description

Field of Application	Very economical mineral lightweight mortar for bonding insulation boards and for reinforcement layers (base coats) within the Capatect ETICS. Can be used for layer thicknesses of 4 - 10 mm.	
Material Properties	<ul style="list-style-type: none"> <li>■ very smooth processing</li> <li>■ very low consumption</li> <li>■ very good stability</li> <li>■ fire behavior "non-combustible"</li> <li>■ weather-resistant and water-repellent according to DIN V 18550</li> <li>■ highly permeable to water vapor</li> </ul>	
Packaging/Package Size	15 kg bag, 500 kg OneWay-Container, 600 kg BigBag, 5.0 t silo	
Colours	Natural white	
Storage	Cool, dry and frost-free. Protect from direct sunlight. Empty silo containers and silos completely before long periods of standstill (winter break). Originally closed bags/ containers have a shelf life of approx. 12 months.	
Technical Data	<ul style="list-style-type: none"> <li>■ Resistance-count for diffusion <math>\mu</math> (H<sub>2</sub>O):</li> <li>■ Diffusion-equivalent air layer thickness <math>s_{dH_2O}</math>:</li> <li>■ Compression strength:</li> <li>■ Apparent density of hardened mortar:</li> <li>■ Adesive tensile strength:</li> <li>■ Vehicle / Binding agent:</li> <li>■ Capillary water absorption:</li> <li>■ Water permeability (w-value):</li> </ul>	<ul style="list-style-type: none"> <li><math>\mu \leq 20</math> as per DIN EN 998-1</li> <li><math>s_d &lt; 0.1</math> m as per DIN EN ISO 7783</li> <li>Class CS III as per DIN EN 998-1</li> <li>approx. 1.0 g/cm<sup>3</sup></li> <li><math>\geq 0.5</math> N/mm<sup>2</sup> as per DIN EN 998-1</li> <li>Mineral binder as per DIN EN 197-1 and DIN EN 459-1</li> <li>Classe W<sub>1</sub> as per DIN EN 998-1</li> <li><math>w \leq 0,1</math> kg/(m<sup>2</sup>h<sup>1/2</sup>) as per DIN EN 1062</li> </ul>
Product No.	131 SL	

## Application

Before applying the finishing coat, the base coat (reinforcement layer) must be primed with the key coat Putzgrund 610 depending on the weather, absorbency and the finishing coat used.

To protect against rain during the drying phase, hang the scaffolding with tarpaulin if necessary.



Substrate Preparation	<p>Masonry, concrete or adherent existing coatings must be clean, dry, sound/ stable, and free from all substances, that may prevent good adhesion, e.g. formwork oil residues.</p> <p>Remove mortar burrs and unsound, flaking/ peeling existing paint and textured plaster coatings as far as possible. Cut off plaster with local separations having no sufficient adhesion to the substrate and repair to match the surrounding surface. Clean highly absorbent, sanding or chalking surfaces thoroughly up to the solid substrate level and prime with Sylitol® RapidGrund 111.</p> <p>For other cases, see Technical Information "Untergründe und deren Vorbehandlung" / "Substrates and their Preparation"</p>
Preparation of Material	<p>Water requirement approx. 6.0 - 6.5 l per 15 kg bag.</p> <p>Capatect Klebe- und Armierungsmasse 131 SL can be processed with all common flow mixers, screw conveyor pumps and plastering machines, but it can also be processed manually with a powerful, slow-running agitator with clean, cold water into a lump-free pasted mass. Let the pasted material mature for about 3 minutes and then stir again briefly. If necessary, the consistency can be readjusted with a little water after this maturing time.</p> <p>Depending on the weather, the processing time for manually pasted material is approx. 2-2.5 hours, with machine delivery max. 60 minutes. Never use water to make already set material usable again.</p>
Consumption	<p><b>Adhesive:</b> approx. 3.0 - 4.0 kg/m<sup>2</sup></p> <p><b>Base coat:</b> approx. 0.9 kg/m<sup>2</sup> per mm layer thickness</p> <p>These consumption figures are guide values. Building-dependent or processing-related deviations must be taken into account.</p>
Application Conditions	<p>During processing and in the drying phase, the ambient and substrate temperatures must not be below +5°C or above +30°C. Do not use in direct sunlight, strong wind, fog or high humidity.</p>
Drying/Drying Time	<p>At 20°C and 65% relative humidity, the base coat is surface dry after 24 hours. The drying time is approx. 1 day per mm of application thickness.</p> <p>Capatect Klebe- und Armierungsmasse 131 SL dries through hydration and physically by evaporation of the mixing water. Delayed drying is therefore given, especially in the cool season and when the air humidity is high.</p>
Tool Cleaning	<p>Immediately after use with water.</p>
Example for Machine Equipment	<p>Capatect Klebe- und Armierungsmasse 131 SL can be processed with common plastering machines.</p> <ol style="list-style-type: none"> <li>1) Continuous mixer Berö Calypso 15 with standard dosing or mixing shaft and delivery pump Berö Speedy 15 with screw part 1/1 power.</li> <li>2) Mixing pump e.g. PUTZKNECHT S48.3 or PFT G4 (½ power)</li> </ol> <p><b>Important information:</b> Please be sure to observe the guidelines of the machine manufacturer.</p> <p><b>Electrical connection:</b> 400 V three-phase current / 16 A each (site power distributor with FI circuit breaker)</p> <p><b>Water connection:</b> Hose 3/4 with GEKA, required water pressure with the machine running at least 2.5 bar</p> <p><b>Water flow:</b> Approx. 270 l / h (device type 1) Approx. 540 l / h (device type 2) The desired consistency can be set at the fine adjustment valve on the mixer tap.</p> <p><b>Delivery hoses:</b> Starting hoses: inside Ø 35 mm, each 13.3 m; End hose: inside Ø 25 mm, 10.0 m</p> <p><b>Conveying distance:</b> Maximum conveying distance approx. 36 m (to be optimized depending on the building and temperature)</p> <p><b>Sprayer:</b> Nozzles 8 - 12 mm</p> <p>Rinse the delivery hoses with lime sludge or paste before regular operation.</p> <p>Do not leave the delivery hose in direct sunlight during work interruptions, e.g. cover material container with foil and keep the sprayer and nozzle under water. Waiting time max. 30 min. to continue working, otherwise the material in the hose can harden.</p> <p>Before taking a break from work, the material container in the feed pump in the "open system" (continuous mixer + feed pump) must be emptied as far as possible to prevent the formation of tunnels when restarting. If this is not observed, the material must be made "passable" before starting the machine (with the machine switched off).</p> <p>You can find more information on this in the brochure "Handbuch der Spritztechnologie" (Spray Technology Manual).</p>

Reinforcement Layer

**Base coat (manual or machine application):**

First install the edge protection to the window reveals and edges, as well as the diagonal glass fiber mesh at the corners of facade openings. Then apply the base coat in the width of the glass fiber mesh and press in the Capatect Gewebe 650/110 or alternatively the Capatect Gewebe 666/110 with at least 10 cm overlap and smooth the surface. The possible use of Capatect Gewebe 666 must be compared with the approval in advance of implementation. It is important to ensure that the glass fiber mesh is embedded "surrounded by mortar" and approximately lies in the outer third of the base coat layer. The material must be processed in an uniform layer thickness of at least 4 mm and a maximum of 10 mm.

Bonding of Insulation Boards

Bonding takes place over the entire surface or using the bead-point method. As a rule, the adhesive contact area to the substrate is > 40%. The contact area can change depending on the system used and the type of adhesive application (e.g. machine application). For this, the ETICS processing guidelines and the corresponding system approval must be observed.

## Advice

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

The mineral powder contains portland cement and shows an alkaline reaction with water based liquids. Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. Keep out of reach of children. Do not breathe dust or mist. 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.  
Note: Only to be used by trained operatives.

**Approvals and assessments:** Z-33.43-132

Please Note (Status as at Date of Publication)

Disposal

Only give completely empty containers (trickle-free) for recycling. Dispose of hardened material residues as mixed construction and demolition waste. EAK 170904

Risk and Transportation Markings

See Material Safety Data Sheet (MSDS)

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