

Capatect Klebe- und Armierungsmasse 131 SL

Mineral mortar with organic lightweight aggregates (EPS beads) for use as adhesive and base coat in Capatect facade systems



Product Description

Field of Application	Very economical mineral lightweight mortar for use as adhesive and base coat for facade insulation boards based on mineral wool, polystyrene and polyurethane, as well as on sufficiently load-bearing mineral substrates.
Material Properties	<ul style="list-style-type: none"> ■ Medium- to thick-layer base coat (4 - 11 mm in a single layer) ■ Very smooth processing with very low consumption ■ Excellent machinability ■ Highly permeable to water vapor ■ Very good stability ■ Good adhesion to all mineral substrates
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"> ■ Heat conductivity: ≤ 0.21 W/(mK) for P=50 % ≤ 0.23 W/(mK) for P=90 % ■ Resistance-count for diffusion μ (H₂O): $\mu \leq 20$ according to DIN EN 998-1 ■ Diffusion-equivalent air layer thickness s_dH₂O: $s_d \leq 0.1$ m according to DIN EN ISO 7783 ■ Compressive strength: Class CS III according to DIN EN 998-1 ■ Apparent density of hardened mortar: approx. 0.9 g/cm³ according to DIN EN 1015-6 ■ Adesive tensile strength: ≥ 0.08 N/mm² - fracture pattern A, B or C ■ Fire behaviour: Class A2-s1,d0 according to DIN EN 13501-1 ■ Vehicle / Binding agent: Mineral binder according to DIN EN 197-1 and DIN EN 459-1 ■ Capillary water absorption: $c \leq 0.40$ kg/(m²*min^{1/2}) according to DIN EN 1015-18 Class W_c1 according to DIN EN 998-1 ■ Water permeability (w-value): $w \leq 0.1$ kg/(m²*h^{1/2}) according to DIN EN 1062-3
Product No.	131 SL



Application

	<p>Before applying the finishing coat, the base coat must be primed with the key coat "Putzgrund 610" depending on the weather, absorbency and the finishing coat used.</p> <p>To protect against rain during the drying phase, hang the scaffolding with tarpaulin if necessary. In Germany: During application and execution, observe DIN 18550-1 and DIN 18350, VOB, Part C.</p>
Substrate Preparation	<p>General notes: The substrate must be even, clean, dry, solid, load-bearing and free of separating or adhesion-reducing residues or substances. Contamination and substances with a separating effect (e.g. formwork oil) as well as protruding mortar burrs must be removed.</p> <p>Damaged, peeling old coatings and textured renders must be removed as far as possible. Hollow areas of render must be chipped off and flush with the surface to be rendered. Highly absorbent, sanding or chalking surfaces must be thoroughly cleaned down to the solid substance and primed with a suitable primer, e.g. "Sylitol® RapidGrund 111".</p> <p>Tape off window sills and add-on parts. Carefully cover glass, ceramics, clinker, natural stone, painted and eloxated surfaces. The compatibility of any existing coatings with the adhesive mortar or undercoat must be checked by an expert.</p>
Preparation of Material	<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. Water requirement approx. 6-7 l per 15 kg bag.</p>
Consumption	<p>Adhesive: approx. 3.0 - 4.0 kg/m²</p> <p>Base coat: approx. 0.9 kg/m² 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. 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") issued by the "Bundesverband Ausbau und Fassade" (German Association for Finishing and Facades).</p> <p>Depending on weather conditions, the working time for manually raised material is approx. 2 to 2.5 hours (pot life), for mechanically raised material a maximum of 60 minutes. Do not use water to make material that has already stiffened workable again.</p>
Drying/Drying Time	<p>At 20 °C and 65 % relative humidity:</p> <p>Bonding: Depending on the weather, fixing with dowels or reworking is carried out after 24 hours at the earliest.</p> <p>Base coat: For base coat layer thicknesses up to approx. 6 mm, depending on weather conditions, recoating with mineral textured renders can be carried out after 2 days at the earliest, with synthetic resin or silicone resin renders after 5 days at the earliest, with thicker base coat thickness correspondingly later.</p> <p>"Capatect Klebe- und Armierungsmasse 131 SL" dries by hydration and physically, i.e. by evaporation of water. Particularly in the cool season and at high humidity, drying is therefore delayed.</p>
Tool Cleaning	<p>Immediately after use with water.</p>

Example for Machine Equipment

Capatect Klebe- und Armierungsmasse 131 SL can be processed with common plastering machines.

- 1) Continuous mixer Berö Calypso 15 with standard dosing or mixing shaft and delivery pump Berö Speedy 15 with screw part 1/1 power.
- 2) Mixing pump e.g. PUTZKNECHT S48.3 or PFT G4 (½ power)

Important information:

Please be sure to observe the guidelines of the machine manufacturer.

Electrical connection:

400 V three-phase current / 16 A each (site power distributor with FI circuit breaker)

Water connection:

Hose 3/4 with GEKA, required water pressure with the machine running at least 2.5 bar

Water flow:

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.

Delivery hoses:

Starting hoses: inside Ø 35 mm, each 13.3 m; End hose: inside Ø 25 mm, 10.0 m

Conveying distance:

Maximum conveying distance approx. 36 m (to be optimized depending on the building and temperature)

Sprayer:

Nozzles 8 - 12 mm

Rinse the delivery hoses with lime sludge or paste before regular operation.

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.

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).

You can find more information on this in the brochure "Handbuch der Spritztechnologie" (Spray Technology Manual).

Reinforcement Layer

After applying the edge protection to window reveals and edges, apply the material according to the desired layer thickness by machine or manually with a stainless steel trowel. The material is to be applied in uniform layer thickness of 4 - 11 mm (single layer).

Lay the system mesh in the open mortar bed, overlapping by 10 cm, and level. Embed the mesh approximately in the upper third of the base coat.

In corner areas of building openings, additionally embed "Capatect Diagonalarmierung 651/00" or fabric strips (25 x 25 cm) diagonally into base coat.

Bonding of Insulation Boards

Bond according to bead-dot or tooth-bed method.

Minimum bonding area: 40 %.

Joint areas of the insulation boards must remain free of adhesive.

Never seal joints between insulation boards with adhesive, but with insulation strips or PU filling foam (flame retardant). Lay insulation boards in offset formation and joint tightly.

Bead-dot method

Apply bead bevelled at the edge of the board so that no adhesive is pressed into the joint or bedding when the boards are joined.

For an insulation board area of 0.5 m², apply 3 - 6 adhesive points.

Never fix insulation boards by point bonding only.

Tooth bed method

Use only on plane substrates. Immediately after adhesive application, place insulation boards on the substrate and tap into place.

Machine application of adhesive

Apply material to the back of the insulation board using a suitable mortar pump and glue gun. When using insulation boards for which adhesive application to the substrate is permissible, the adhesive may alternatively be applied to the substrate by machine.

After applying the adhesive, position the insulation boards on the substrate and tap them in place. Press into the adhesive mortar bed, float in and press on.

Note

In case of deviation from the standard bonding procedure, please refer to the product data sheet of the respective insulation material!

Metals, e.g. titanium zinc, can be corroded by direct contact with alkaline mortars.

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. Contains: Cement, portland, chemicals, calcium dihydroxide. Aqueous cement suspensions have an alkaline effect.

Additional advice: 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.

Approvals and assessments:

Z-33.41-130

Z-33.43-132

Z-33.44-133

Please Note (Status as at Date of Publication)

Disposal

Only empty bags (without trickling) for recycling. Dispose of hardened material residues as mixed construction and demolition waste.

Giscode

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