

Capatect-CS-Klebe- und Armierungsmörtel 850

Mineral adhesive and lightweight reinforcing mortar for Capatect façade systems



Product Description

Field of Application	Factory dry mortar to be used as adhesive and base coat for <i>Capatect CS-Dämmplatte 045 Mineral 800</i> . Use in combination e.g. with <i>Capatect Mineral-Leichtputz</i> . Use as lightweight base coat for <i>Capatect PF-Dämmplatte 122</i> .
Material Properties	<ul style="list-style-type: none"> ■ Very good adhesion to mineral substrates, silicate mineral insulation boards and phenolic resin insulation boards ■ Fibre coating ■ Very high water vapour permeability ■ Weather resistant ■ Low material consumption and easy application thanks to lightweight aggregates
Packaging/Package Size	Bag 25 kg Silo Big-Bag
Colours	Off-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"> ■ Density: $\rho \approx 1.0 \text{ g/cm}^3$ ■ Heat conductivity: <ul style="list-style-type: none"> $\lambda_{10, \text{dry, mat}} \leq 0.25 \text{ W/(m}\cdot\text{K)}$ for P=50% according to DIN EN 1745 $\lambda_{10, \text{dry, mat}} \leq 0.27 \text{ W/(m}\cdot\text{K)}$ for P=90% according to DIN EN 1745 ■ Compressive strength: Category CS II according to DIN EN 998-1 1.5 N/mm² - 5.0 N/mm² according to DIN EN 1015-18 ■ Adesive tensile strength: $f_{HZ} \geq 0.08 \text{ N/mm}^2$ according to DIN EN 1015-12 Fracture pattern A, B or C ■ Fire behaviour: Class A2-s1,d0 according to DIN EN 13501-1 (noncombustible) ■ Vehicle / Binding agent: Mineral binders according to DIN EN 197-1 and DIN EN 459-1 Synthetic resin dispersion ■ Capillary water absorption: Category W_C2 according to DIN EN 998-1 $C \leq 0.20 \text{ kg/(m}^2\cdot\text{min}^{0.5})$ according to DIN EN 1015-18 ■ Water vapour permeability (sd-value): $\mu \leq 20$ according to DIN EN 1015-19



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Supplementary Product

- Capatect CS-Dämmplatte 045 Mineral 800
- Capatect PF-Dämmplatte 122
- Capatect Putzgrund 610

Product No.

850

Note

Specified fixed values represent average values that may vary slightly from delivery to delivery due to the use of natural raw materials.
The "allgemeine bauaufsichtliche Zulassung" (general building authority approval) / "allgemeine Bauartgenehmigung" (general type approval) of the ETICS, VHF or the products and the Technical Informations of the products must be observed.

Application

Suitable Substrates

Brickwork and concrete with or without render, or substrates as specified in the ETICS approvals / type approvals.

Substrate Preparation

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.

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.

Highly absorbent, sanding or flouring surfaces must be thoroughly cleaned down to the solid substance and primed.

The compatibility of any existing coatings with the material must be expertly checked.

Preparation of Material

- 25 kg of material (one bag) in approx. 9 litres of water.

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.

Consumption

Bonding of insulation boards
approx. 3.0-5.0 kg/m²

Base coat

approx. 1.0 kg per mm layer thickness per m²
(e.g. corresponds to approx. 6.0 kg/m² with 6 mm layer thickness)

These consumption figures are approximate values.

Deviations depending on the object or processing conditions must be taken into account.

Layer thickness:

Base coat in ETICS: 5-7 mm

Application Conditions

During the application and in the drying phase, the ambient and substrate temperatures must not be below +5 °C and above +30 °C.

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.

Drying/Drying Time

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.

Waiting time after bonding

- Dowelling at least 24 hours
- Base coat approx. 3 days

The base coat must be sufficiently evenly dried.

Waiting time after base coat

- Mineral finishing renders at least 1 day per mm layer thickness, but at least 2 days
- Paste-like finishing renders at least 5 days

Tool Cleaning
Example for Machine Equipment

Rinse with water immediately after use in accordance with legal regulations.

- 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

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.

- Adhesive contact area to *Capatect CS-Dämmplatte 045 Mineral 800* \geq 70 %
- Adhesive contact area to *Capatect PF-Dämmplatte 022* \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.

- Adhesive contact area to *Capatect CS-Dämmplatte 045 Mineral 800* \geq 70 %
- Adhesive contact area to *Capatect PF-Dämmplatte 022* \geq 60 %

Reinforcement Layer

- In the corner area of building openings, embed additional *Capatect Diagonal Diagonalarmierung* (diagonal reinforcement strips), *Sturzeckprofil* (lintel corner profile) 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* (mesh corner protection), 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

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

Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. Avoid breathing dust. Wash skin thoroughly after handling. Wear protective gloves/ eye protection/ face protection. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. 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 in a well-ventilated place. Keep container tightly closed.

Contains: calcium dihydroxide, White cement, Portland, chemicals.

For commercial/industrial applications. Aqueous cement suspensions have an alkaline effect. Wear long trousers! Avoid prolonged skin contact with the plaster. Thoroughly clean any affected areas of the skin immediately using water. The longer fresh plaster remains on the skin, the greater the danger of serious skin damage. Keep children away from fresh plaster! The safety instructions issued by the manufacturer must be strictly followed during the application phase. Further technical information is available by calling +49 (0) 6154/7171710 and advice for allergy sufferers can be obtained by calling +49 (0) 800/1895000.

GISCODE: ZP1.

VOC content in accordance with Directive 2004/42/EC: **This product contains max. 1 g/l VOC.**

Declaration of ingredients according to VdL directive 01 (Germany): Calcium hydroxide, Cement, polyvinylacetate resin, silicates, mineral pigments / fillers, additives.

Further Details

German approvals:

Z-33.43-606

Z-33.43-1667

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