

Capatect ArmaReno 700

Mineral dry mortar premix with a wide range of uses



Product Description

Field of Application	<p>High-quality adhesive and reinforcing compound as an adhesive for insulation boards, as a base coat and as a feltable finishing render in the Capatect façade systems. Can be used as a renovation mortar for reworking old, load-bearing plaster surfaces and as a thin-layer adhesive plaster, e.g. for smooth concrete surfaces without a sintered layer, XPS-R and HWL boards. Also suitable for plinth areas.</p>
Material Properties	<ul style="list-style-type: none"> ■ Weather-resistant and water-repellent ■ Highly water vapour permeable ■ Extremely low tension due to added fibers ■ Very good working properties for use with silos or machines ■ Long open-time for application ■ Modifying additives for water repellency, smooth processing and good adhesion
Packaging/Package Size	<p>bag 25 kg OneWay® container 800 kg BigBag 1.000 kg</p>
Colours	White
Storage	Dry, protected from moisture, in original sealed packaging. Application within 12 months.
Technical Data	<p>Normal plaster mortar (GP) according to DIN EN 998-1</p> <ul style="list-style-type: none"> ■ Density: $\rho \sim 1,6 \text{ g/cm}^3$ ■ Heat conductivity: $\lambda_{10, \text{dry, mat}} \leq 0,82 \text{ W/(m}\cdot\text{K)}$ for P=50% according to DIN EN 1745 $\lambda_{10, \text{dry, mat}} \leq 0,89 \text{ W/(m}\cdot\text{K)}$ for P=90% according to DIN EN 1745 ■ Resistance-count for diffusion $\mu \text{ (H}_2\text{O)}$: $\mu \leq 25$ according to DIN ISO 7783 ■ Compressive strength: Category CS III according to DIN EN 998-1 3.5 N/mm² to 7.5 N/mm² according to DIN EN 1015-11 ■ Adesive tensile strength: $f_{\text{HZ}} \geq 0.08 \text{ N/mm}^2$ 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 Synthetic resin dispersion powder ■ Capillary water absorption: Category WC2 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



TECHNICAL INFORMATION NO. 700

Product No. 700

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 Bauartengenehmigung" (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 in accordance with the specifications of the ETICS approvals.
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. 5-6 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.</p> <p>Work through again after approx. 3-5 minutes. If necessary, adjust the consistency with a little water after this maturing time.</p> <p>Depending on the weather, the working time is approx. 1.5 hours (pot life).</p> <p>Do not use water to make material that has already hardened workable again.</p>
Consumption	<p>Bonding of insulation boards approx. 3.5-5.0 kg/m²</p> <p>Base coat approx. 1.5 kg per mm layer thickness per m² (e.g. corresponds to approx. 7.5 kg/m² with 5 mm layer thickness)</p> <p>Renovation approx. 1.5 kg per mm layer thickness per m²</p> <p>Finishing render felted approx. 3.2 - 4.5 kg/m² with 2-3 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>
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> <p>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.</p> <p>The waiting time for recoating depends on temperature, air humidity, air movement, solar radiation and application thickness. The specifications refer to ambient temperatures of 20 °C and 60 % relative humidity and serve as a guide.</p> <p>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 ■ Base coat approx. 3 days</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> <p><u>Waiting time after finishing render</u></p>

Tool Cleaning
Example for Machine Equipment

- Guideline value: at least 1 day per millimetre of application thickness, but at least 7 days

An additional priming coat of *CapaGrund Universal* reduces the risk of lime efflorescence.

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. 30 m; delivery head 20 m (depending on temperature)

Sprayer:

Nozzle- \varnothing 10 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.

Renovating Mortar

Apply material to level substrate unevenness up to 10 mm thick by machine or manually with a stainless steel trowel and level with a trowel, embed *Capatect Gewebe 650* or *666* in the upper third if required.

When applied in two layers, the first layer must be set but not completely dry. For application as a renovation mortar, embed a mesh in the upper third.

TECHNICAL INFORMATION NO. 700

Finishing Render/Plaster

Thin-layer finishing renders with grain sizes < 3 mm may require special measures, e.g. priming, levelling filler, painting.
Apply material by hand or by machine in an even layer thickness. Smooth the surface during the setting process or felt with a sponge disc. Felted the material with a sponge disc can cause irregular accumulation of binding agents and/or fine particles from the plaster matrix on the plaster surface, which can have an adhesion-reducing effect on subsequent coatings.
Finish contiguous surfaces without interruption to avoid lapping in the textured layer. Divide large façades into clauses, apply continuously wet-on-wet and texture.
For freely modellable textures, apply mortar in approx. 3 - 5 mm and shape the surface with a suitable tool. If necessary, work the mortar with a little water and a soft brush after application (washed trowel texture).
Finally, coat the felted surface with at least 2 coats of a suitable façade paint once it is completely dry. To ensure sufficient adhesion and to regulate absorbency, a primer corresponding to the planned paint system is recommended before applying subsequent coats.
When incorporating the material in the plinth area up to below ground level, additional moisture protection must be provided up to approx. 50 mm above ground level.

Thin-Layer Adhesive Mortar

On concrete without a sintered layer, XPS-R and HWL boards etc., apply the material to a thickness of at least 5 mm and comb through with a coarse notched trowel or roughen with a broom. Waiting time = approx. 1 day per mm layer thickness before applying the base coat.

Note

Due to their special properties, deviations in colour shade and staining cannot always be avoided with coloured mineral renders. This does not constitute a technical-functional defect and cannot be objected to.
In order to avoid colour irregularities, coloured plaster surfaces must also be finished with a levelling coat or a suitable façade paint in the colour of the plaster.
The risk of infestation by microorganisms can be significantly reduced by applying a facade paint with film protection.
For light colour values below 20, the render in ETICS must be coated with at least two layers of a solar-reflective façade paint (*Caparol CoolProtect* with TSR value ≥ 25) after drying.
Special measures must be taken on solid walls with HBW < 30, e.g. an additional reinforced base coat with a full-surface mesh insert on the lightweight base coat and/or a solar-reflective façade paint.
Note the limits of feasibility in the respective system.

Advice

Approvals

Z-33.41-130
Z-33.41-1706
Z-33.42-1739
Z-33.43-132
Z-33.43-1667
Z-33.43-1707
Z-33.44-133
Z-33.46-1091
Z-33.46-1732
Z-33.47-859

ETA-07/0184
ETA-08/0304
ETA-09/0368
ETA-10/0436
ETA-11/0300
ETA-12/0383

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

Danger. Causes skin irritation. Causes serious eye damage. If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read carefully and follow all instructions. Wash skin thoroughly after handling. 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.

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.

Disposal

Cement, Calcium hydroxide, polyvinylacetate resin, silicates, calcium carbonate, mineral pigments / fillers, additives.

Giscode

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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

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