Capatect ArmaReno 700

Mineral dry mortar premix with a wide range of uses

Product Description

Field of Application

High-quality adhesive, base coat and feltable finishing coat within the Capatect facade systems.

Suitable as a renovation mortar for overworking old, stable plastered 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 the plinth area of external thermal insulation composite systems.

Material Properties

- 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

25 kg bag, 800 kg OneWay®Container, 1.000 kg BigBag

Colours

White

Storage

Dry and cool, but frost-free; protect from direct sunlight. Empty containers and silos completely before long breaks (e.g. winter break). Shelf life of original, tightly closed packaging: Approx. 12 months.

Technical Data

Density:	Approx. 1.6 g/cm³ as per DIN EN 1015-6
Heat conductivity:	$\lambda_{10,\,dry,\,mat} \leq 0{,}82$ W/(m·K) for P=50% $\lambda_{10,\,dry,\,mat} \leq 0{,}89$ W/(m·K) for P=90%
Resistance-count for diffusion μ (H_2O):	≤ 25 as per DIN ISO 7783
Compression strength:	Klasse CS III according to DIN EN 998-1
Adesive tensile strength:	≥ 0.08 N/mm²
Fire behaviour:	A2-s1,d0 (non-combustible)
Coefficient of water absorption:	w ≤ 0.1 kg/(m²h$^{1/2}$) as per DIN EN 1062-3
Vehicle / Binding agent:	Mineral binders according to DIN EN 197-1 Synthetic resin dispersion powder
Capillary water absorption:	≤ 0.2 kg/(m²h$^{1/2}$) as per DIN EN 1015-18 class W_C 2 as per DIN EN 998-1

Product No.

700

CAPAROL Farben Lacke Bautenschutz GmbH Werk 1030

Polymer Institut

Application

Substrate Preparation

General advice:
The substrate must be even, clean, dry, solid, sound/stable, adherent, and free from all substances, that may prevent good adhesion. Mask windowsills and attached parts. Cover glass, ceramics, clinker, natural stone, varnished and anodised surfaces thoroughly. The suitability of any existing coatings with the adhesive or base coat must be checked by an expert.

With grain sizes < 2.0 mm an additional pre-treatment of the base coat may be necessary.

Renovation mortar:
Clean mineral substrates (plaster of mortar group PII or PIII), if necessary, to achieve a sound/ stable surface.

Clean mineral substrates (plaster of mortar group PII or PIII) showing a slightly sanding surface, then prime with Sylitol® RapidGrund 111.

Clean existing paint coatings (must be adherent and without chalking effect) e.g. with a high-pressure water jet.

Clean adherent existing paint coatings with a slightly chalking surface e.g. with a high-pressure water jet and prime with Sylitol® RapidGrund 111.

Remove unsound existing paint coatings completely.
Plaster surfaces showing cracks can only be treated in a safe way, when further crack movement can be excluded without fail.

Thin-layer adhesive plaster:
Clean concrete surfaces, if necessary. XPS boards: Abrade unstable or yellowed areas and remove dust. HWL boards (wood wool lightweight boards): Remove loosely adherent particles.

Method of Application

Adhesive - bonding of insulation boards:
EPS and mineral wool boards:
Apply the fresh mortar to the reverse side of thermal insulation boards by using the "Bead-Point-Method": A bead of material, approx. 5 cm wide, surrounds the board and 3 blobs (palm-sized) are to be applied in the middle of the board (≥ 40 % of the surface should have contact with adhesive material.)
Pre-treatment of uncoated mineral wool boards: To guarantee proper bonding, the adhesive mortar should first be applied in this area as a thin-film adhesive layer and then peeled off by trowel (sharply drawn).

Mineral wool lamella – optionally:
Full surface application:
Apply the adhesive mortar with a square notched trowel to the reverse side/rear panel, just before the installation (width and depth of notches depend on the substrate conditions.)

Partial-surface application:
Apply the adhesive mortar by suitable machine to the wall substrate in S-shaped vertically beads, approx. 5 cm wide and min. 10 mm thick (in the middle) with a max. distance of 10 cm to each other (≥ 50 % of the surface should have contact with adhesive material).
Place the thermal insulation boards without delay into the freshly applied adhesive mortar layer by pressing them correctly. Only as much adhesive should be used as insulation boards can be installed directly.

With the insulation board bonding, unevenness of up to ± 1 cm in the adhesive bed can be leveled out. Lay the insulation boards tightly butted in a bond from bottom to top and press firmly. Avoid the penetration of adhesive material into butt joints. Pay attention to flush and perpendicular laying. Allow to set for min. 48 hours before any further application.

Base coat:
After having applied the edge protection to reveals and edges and diagonal reinforcement fabric to the edges of openings in the façade, apply the base coat in width of fabric sheets and embed the system-related glass fiber mesh with an overlap of min. 10 cm. Then apply the material wet on wet to guarantee the complete covering of the mesh.
Processing can either be done by hand or machine.

Apply the base coat in an even layer thickness. Place the mesh into the middle of the base coat with thicknesses up to 4mm. For greater thicknesses place the mesh into the upper third of the base coat. The layer thickness can optionally be determined:
- on polystyrene insulation boards: 3-7 mm
- on mineral wool insulation boards: 4-7 mm

Renovation mortar:
Depending on the facade conditions Capatect ArmaReno 700 can be used for:
- Treatment of partial defects
- Surfacing and levelling of existing textured plaster coatings
- Complete revision of old plaster and masonary surfaces

The embedding of glass fiber mesh is recommended. Processing can either be done by hand or machine.

Finishing coat:
Prime with Sylitol® RapidGrund 111, if necessary, depending on the substrate absorbency and weather conditions during application.

To create a felted finishing coat, Capatect ArmaReno 700 must be applied to the existing substrate (plaster MG PII/ PIII or Capatect ArmaReno 700 as base coat) in a thickness of approx. 2-3 mm.

During the setting process of the mortar, the surface can be worked over with a dampened felt or sponge disc.

Note:
It should be noted that on felted surfaces, as a result of surface accumulation of binder (sintered layer), the formation of fine shrinkage cracks can never be completely ruled out. This is not a deficiency to be complained about.

New finishing coats can be painted after a sufficient waiting time, normally 2 weeks at 20 °C and 65 % RH. Unfavorable weather conditions, e.g. influenced by wind and rain, extend the waiting time significantly.

An additionally key coat of CapaGrund Universal minimises the risk of efflorescence so that the finishing coat may be painted twice with ThermoSan or AmphiSilan after a waiting time of 7 days.

Thin-layer adhesive plaster:
Apply Capatect ArmaReno 700 at least 5 mm thick on concrete substrates without a sintered layer, XPS/ R and HWL boards etc. and comb through with a coarse notched trowel or roughen with a broom. Setting time = approx. 1 day per mm of layer thickness before the plaster/ base coat is applied.

Plinth area:
When using Capatect ArmaReno 700 below ground level, an additional moisture protection up to approx. 50 mm above ground level must be provided.

Consumption

Bonding:
Approx. 4.5 - 6.0 kg/m² depending on bonding method and type of insulation material

Base coat:
Approx. 1.6 kg/m² per mm of layer thickness

Renovation mortar and thin-layer adhesive plaster:
Approx. 1.6 kg/m² per mm of layer thickness

Felted finishing coat:
Approx. 3.2 - 4.5 kg/m² for a layer thickness of 2-3 mm.

These consumption figures are guidelines. Building-dependent or processing-related deviations must be taken into account. Exact values are to be determined by trail work on site.

Application Conditions

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 information "Verputzen, Wärmedämmen, Spachteln, Beschichten bei hohen und tiefen Temperaturen" from the German Federal Association "Bundesverband Ausbau und Fassade".

Drying/Drying Time

Approx. 3 - 7 days at 20°C and 65% relative humidity depending on the layer thickness (guideline: approx. 1 day per mm).

The base coat is surface dry after 24 hours.

Tool Cleaning	Immediately after use with water.
Material Preparation	Water requirement approx. 5.5 - 6.5 l per 25 kg bag. Capatect ArmaReno 700 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 5 minutes and then stir again briefly. If necessary, the consistency can be readjusted with a little water after this maturing time. Depending on the weather, the processing time for manually pasted material is max. 2 hours, with machine delivery 60 minutes. Never use water to make already set material usable again.
Example for Machine Equipment	Capatect One-Way box (powder) with flow mixer Capa-M E12: see technical information. Flow mixer Calypso 15 with standard metering or mixing shaft and Speedy 15 conveyor pump with screw part 1/1 power. **Strictly follow manufacturer instructions!** **Electric Supply:** 400 V rotary current / 16 A (power distributor with FI-protection switch) **Water Supply:** 3/4" hose with GEKA, minimum 2.5 bar water pressure is required for the running machine. **Water flow :** Approx. 330 l/hour for bonding. Adjust the desired consistency by the fine-regulating valve in the water-fitting of the mixer. **Delivery hoses:** Start hose, inside Ø 35 mm, 13.3 m each; end hose, inside Ø 25 mm, 10.0 m **Max. conveying distance:** Approx. 50 m (should be optimised depending on the conditions on site and temperature). **Spraying Unit:** Nozzle Ø 10 mm **Note:** Rinse hoses prior to regular application with lime slurry or lime paste.
Note	Cover the scaffolding with tarpaulins during the curing phase, if necessary to protect the surface against rain. Germany: Observe DIN 18550-1/2 and DIN 18350, VOB, part C when using and executing.

Advice

Approval:
Z-33.41-130
Z-33.43-132
Z-33.44-133
Z-33.47-859
ETA-10/0436
ETA-10/0160

Special Risks (Hazard Note) / Safety Advice (Status as at Date of Publication)	Restricted to professional users. 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. Do not breathe dust or mist. Wash hands thoroughly after handling. 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. That mineral powder interacts with water to an alkaline reaction. **Contains:** Cement, portland, chemicals, calcium dihydroxide. VOC content according to Directive 2004/42/EG <1 g/l.
Disposal	Can be deposited after solidification in compliance with local official regulations. In addition, the current technical information on this product and its processing on www.caparol.de must be observed. European Waste Code (EWC) 170904
Giscode	ZP1
Further Details	**CE Labelling** According to EN 998-1 CE declaration on bags / containers and on data sheet for CE declaration, which can be accessed on the website www.caparol.de.
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