

Capatect Klebe- und Armierungsmasse 170

Mineral based dry mortar premix according to DIN EN 998-1 to be used as adhesive and/ or base coat



Product Description

Field of Application	Adhesive and base coat in the Capatect façade systems with render and especially suitable for the systems with claddings "Capatect Keramik", fine stone and natural stone.
Material Properties	<ul style="list-style-type: none"> ■ Medium-layer base coat (4 - 7 mm for single-layer, max. 10 mm for double-layer application). ■ One material for insulation board bonding and base coat ■ General purpose rendering mortar according to DIN EN 998-1 ■ Water-repellent, weather-resistant, highly permeable to water vapour ■ Easy processing ■ Good adhesion to all mineral substrates, to polystyrene and mineral wool insulation boards
Material Base / Vehicle	Mineral binders according to DIN EN 197-1 and DIN EN 459-1, synthetic resin dispersion powder.
Packaging/Package Size	25 kg bag, 800 kg OneWay®Container, 1.0 t Big-Bag, Silo from 5.0 t.
Colours	Grey
Storage	Cool, dry and frost-free. Original closed bags are shelf stable for approx. 12 months, low chromate for 12 months.
Technical Data	<ul style="list-style-type: none"> ■ Resistance-count for diffusion μ (H₂O): ≤ 25 according to DIN EN 998-1 ■ Diffusion-equivalent air layer thickness s_{d,H_2O}: (4 mm): $s_d < 0,1$ m according to DIN EN ISO 7783 ■ Compressive strength: Class CS III according to DIN EN 998-1 ■ Apparent density of green mortar: approx. 1,4 g/cm³ according DIN EN 998-1 ■ Adesive tensile strength: > 0,08 N/mm² according to DIN EN 998-1 ■ Fire behaviour: Class A2-s1, d0 according to DIN EN 13501-1 ■ Adesive tensile strength on EPS high-density foam board: ≥ 0,08 N/mm² ■ Capillary water absorption: C ≤ 0,20 kg/(m²·min^{0,5}) according to DIN EN 1015-18 ■ Water permeability (w-value): Class W_c2 according to DIN EN 998-1 w ≤ 0,15 kg/(m² · h^{0,5}) according to DIN EN 1062-3
Product No.	170



Application

Substrate Preparation

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.

Damaged, flaking old coats of paint and textured renders must be removed as far as possible. Hollow areas of the render are to be knocked off and flush with the surface to be rendered. Highly absorbent, sanding or chalking surfaces must be thoroughly cleaned to solid substance and primed with a suitable primer, e.g. "Sylitol® RapidGrund 111".

Mask off window sills and add-on parts. Carefully cover glass, ceramics, clinker, natural stone, painted and anodised surfaces. The compatibility of any existing coatings with the adhesive or base coat must be checked by an expert.

Preparation of Material

"Capatect Klebe- und Armierungsmasse 170" can be mixed to a lump-free mass using a powerful, slow-running agitator or compulsory mixer and clean, cold water. Do not use water to make material that has already stiffened workable again.

Water requirement approx. 5.8 l per 25 kg bag.

Method of Application

Base Coat:

Sand off any offsets at the polystyrene board joints and remove adhering sanding dust.

With uncoated mineral wool insulation boards, work the base coat into the surface of the insulation board (press filling). After applying the corner protection at window reveals and edges, as well as the diagonal reinforcement mesh at the corners of façade openings, the reinforcement compound is to be applied to the insulation boards in each case in the width of the mesh and the reinforcement mesh belonging to the system is to be pressed in with an overlap of at least 10 cm. Then apply a wet-on-wet overlay to ensure full coverage of the mesh.

The total layer thickness must be at least 4 mm. The max. layer thickness is 10 mm. For layer thicknesses of more than 7 mm, a two-layer application is necessary. The second layer must be thinner than the first. Before applying the second layer, the first layer must be set but not completely dry. Work the mesh into the centre of the base coat for layer thicknesses up to 4 mm and into the outer half of the base coat for layer thicknesses over 4 mm.

Anchoring:

When anchoring through the reinforcement mesh, apply the base coat in two layers. The reinforcement mesh is worked into the first layer. Then the anchors are placed and the second layer is applied.

Consumption

Bonding: approx. 4.5-8.0 kg/m².

Base Coat: approx. 1.4 kg/m² per mm layer thickness, layer thickness of the base coat: 4-10 mm.

These given consumptions are approximate values. Object-dependent or processing-related deviations must be taken into account.

Application Conditions

During application and in the drying phase, the ambient and substrate temperatures must not drop below +5 °C and must not exceed +30 °C. Do not apply in direct sunlight, 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).

Drying/Drying Time

If anchoring is necessary, this should only be done after the adhesive bed has solidified sufficiently, i.e. after approx. 1 day.

Particularly in the cool season and with high humidity, there is therefore a delay in drying.

Tool Cleaning

Immediately after use with water.

Advice

If necessary, cover the scaffold with tarpaulins to protect it from rain during the drying phase. Germany: Observe DIN 18550-1 and DIN 18350, VOB, Part C for application and execution. For container or silo goods, please also observe the enclosed instructions.

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.

TECHNICAL INFORMATION NO. 170

Disposal	Only empty bags (without trickling) for recycling. Dispose of hardened material residues as mixed construction and demolition waste.
EU limit value for the VOC content	VOC content according to Directive 2004/42/EC < 1 g/l.
Giscode	ZP1 Products containing cement, low in chromate
Approval	Z-33.43-132 Z-33.46-1091 Z-33.46-1732
CE Labelling	The CE mark is affixed to the bag. The declaration of performance can be found on the Internet at www.caparol.de .
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

Technical Information No. 170 · Issue: May 2023

All suggestions and application instructions herein are based on our latest technical experience. Due to the wide variety of individual project conditions, we cannot be held responsible for their content. These instructions do not release the purchaser/ applicator from his responsibility to determine the suitability of the product in consideration of the project characteristics. These instructions are to be considered void when a new edition is released. Our general conditions of sale and delivery in their latest edition apply. This document is a translation of our German Technical Information No.170 · Capatect Klebe- und Armierungsmasse 170 · Issued: March 2023