

# Capatect-Klebe- und Spachtelmasse 190

Mineral dry mortar premix for bonding thermal insulating boards and for embedding reinforcing fabrics

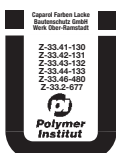


## Product Description

Field of Application	Adhesive mortar for bonding thermal insulating boards and embedding of reinforcing fabrics for Capatect ETICS/EWI* Systems A and B and for Capatect-VHF (Cladding) Systems.
Material Properties	<ul style="list-style-type: none"> <li>■ Fire behaviour: German classification "nichtbrennbar" (non-combustible) or "schwerentflammbar" (hardly combustible / of low flammability) according to the structure of used Capatect ETICS/EWI or VHF (cladding) systems.</li> <li>■ Weather-proof, water-repellent to DIN V 18550</li> <li>■ High water vapour diffusion</li> <li>■ Long open time for application</li> <li>■ High fresh mortar stability</li> <li>■ Ecologically compatible</li> <li>■ Optimised granulometric formular</li> <li>■ Mineral binder, cement based with adhesion promoter</li> <li>■ Balanced compound of quartz and calcite fillers and mineral lightweight aggregates</li> <li>■ Additives for smooth processing</li> </ul>
Packaging/Package Size	25 kg bag, 800 kg One-Way container, Protection cover for One-Way container (optionally), material no. 807534
Colours	Light grey
Storage	Cool, dry and frost-free and protected against direct sunlight. Shelf life of original, tightly closed packaging: approx. 12 months.
Technical Data	<ul style="list-style-type: none"> <li>■ Heat conductivity: 0,7 W/(m · K)</li> <li>■ Bulk density: Approx. 1,38 kg/dm<sup>3</sup></li> <li>■ Resistance-count for diffusion <math>\mu</math> (H<sub>2</sub>O): <math>\mu &lt; 15</math></li> <li>■ Coefficient of water absorption: <math>w &lt; 0,5 \text{ kg}/(\text{m}^2 \cdot \text{h}^{0,5})</math> to DIN EN 1062</li> </ul>
Product No.	190

## Application

Substrate Preparation	Masonry, concrete or adherent existing coatings must be clean, dry, sound/stable, and free from all substances, that may prevent good adhesion, e.g. formwork oil residues. Remove mortar burrs and unsound, flaking/peeling existing paint and textured render/plaster coatings as far as possible. Cut off render/plaster with local separations having no sufficient adhesion to the substrate and repair to match the surrounding surface. Clean highly absorbent, sanding or chalking surfaces thoroughly up to the solid substrate level and prime with Syllitol Concentrate 111.
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Consumption	<p>These consumption data are guiding values. The figures may vary according to substrate or application conditions. The exact rate of consumption is best established by a trial application.</p> <p><b>Bonding of thermal insulating boards:</b> Approx. 4.0 kg/m<sup>2</sup></p> <p><b>Reinforcement layer:</b> Approx. 4.5 kg/m<sup>2</sup> for polystyrene (EPS) foam boards Approx. 5.0 kg/m<sup>2</sup> for mineral fibre boards</p>
Application Conditions	<p>The temperature for material, substrate, water and ambient air should not fall below + 5 °C and not exceed approx. 30 °C during application and drying period. Do not apply in direct sunlight, during strong wind, fog, high relative humidity, and imminent rain or frost.</p>
Drying/Drying Time	<p>At 20 °C and 65% relative humidity the reinforcement layer is surface-dry after 24 hours. Thoroughly dry and ready for stress after 2 to 3 days. The material dries by hydration and physically, i.e. by evaporation of water. Lower temperatures and higher relative humidity extend the drying process. Dowels (if required) should be fastened after sufficient hardening of adhesive-bedding, i.e. after approx. 1 day.</p>
Tool Cleaning	<p>Immediately after use with water.</p>
Material Preparation	<p>The material can be used with all common types of flow mixers and can also be prepared manually. If manually applied the contents of a 25 kg bag of Capatect 190 is gradually mixed into approx. 5 to 6 litres of tap water and agitated with a suitable low-speed electrical paddle until the mixture is free of lumps. Leave to stand and swell for approx. 10 minutes and stir up again.</p> <p>Adjust to working consistency by adding a small amount of tap water, if necessary. Workability/pot life: approx. 2 to 2.5 hours, depending on weather conditions. Never mix slightly hardened or stiff material with water (such material is unusable).</p>
Example for Machine Equipment	<p>Example for Machine Equipment Flow mixer Berö Calypso 15 with standard portioning or mixing spindles.</p> <p>Follow the guidelines of the manufacturer strictly.</p> <p><b>Electric supply:</b> Each 400 V rotary current / 16 A (building current distributor with FI-protection switch).</p> <p><b>Water supply:</b> 3/4" hose with GEKA, minimum 2.5 bar water pressure is required for the running machine.</p> <p><b>Flow of water:</b> For bonding: approx. 200 l/h, for reinforcement layer: approx. 250 l/h. Adjust the desired consistency by the fine-regulating valve in the water-fitting of the mixer. It varies from machine to machine.</p> <p><b>Nozzle size:</b> Supply pump or proportioning and supply pump: ø 10 mm</p> <p><b>Hoses:</b> Up to 3 hoses interior ø 35 mm, 13.3 m each / End hose, interior ø 25 mm, 10.0 m</p>
Reinforcement Layer	<p>Abrade surface irregularities of polystyrene boards butt joints (offset) and remove adherent dust. Secure all edges/corners and reveals of windows with edge guard profiles. Apply diagonal reinforcing fabric to the edges of openings and edge protection along window sides and building corners.* Apply the adhesive mortar onto the thermal insulating boards in the width of a reinforcing fabric sheet. Press Capatect Reinforcing Fabric 650 very thoroughly, sheet by sheet, into the freshly applied, still wet bonding and reinforcement layer with an overlap of approx. 10 cm. Apply a subsequent layer of Capatect 190 (wet-on-wet), to guarantee the complete embedding of fabrics. Provide for a total reinforcement layer thickness of approx. 3 to 4 mm.</p> <p><b>* Corners of the building:</b></p> <p>If Capatect Corner/Edge Reinforcing Fabric is used, the fabric Capatect-Gewebe 650 has to be applied only up to the edge/outside corner.</p> <p>If Capatect Edge Reinforcement (without Reinforcing Fabric Strip) is used, the fabric Capatect-Gewebe 650 has to overlap the edge/corner area for 10 cm.</p>
Bonding of Insulation Boards	<p>Apply adhesive material Capatect 190 thoroughly to the reverse side of the thermal insulating board by using the "Bead-Point-Method". A bead of material, approx. 5 cm wide, surrounds the board and 3 blobs (palm of the hand sized) are to be applied in the middle of the board. Adjust the thickness of applied material to the tolerances of the substrate, such that 40% surface area is in contact with adhesive. Irregularities up to ± 1 cm can be equalised by this application method. Place the boards thoroughly from bottom to top touching each other (pressing together) and press on thoroughly. The rows of insulating boards must be applied 50% staggered (offset) one beneath the other. Avoid the penetration of adhesive into joints. Follow the alignment and vertical lines for installation.</p>

## Advice

Cover the scaffolding with tarpaulins during the drying phase, to protect the surface from rain. Follow DIN V 18550 and DIN 18 350, VOB, part C or equivalent local regulations. Follow instructions for silo goods.

This mineral powdery material has an alkaline reaction. Only to be used by trained operatives. Irritant to skin. Risk of serious damage to eyes. Keep out of the reach of children. Do not breathe dust. Avoid contact with eyes or skin. On contact with eyes, wash immediately and completely with plenty of (clean) water and seek medical advice. Wear suitable protective gloves and eye/face protection. If swallowed, seek medical advice immediately and show the container (packaging) or label.

Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local authorities. Particular attention should be made to removing wastage from site in compliance with standard construction site procedures. In Germany/EC: Only completely emptied packaging (bags) should be recycled. Dispose hardened material as mixed building and demolition waste. European Waste Code (EWC) 170904

Symbol: Xi - "Irritant". Contains cement.  
See Safety Data Sheets.

Giscode ZP1

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

Disposal

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## Technical Information No. 190 · Issue: March 2011

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. 190 · Capatect-Klebe- und Spachtelmasse 190 · Issued: January 2010

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