

# Capatect Dämmkleber 185

Mineral based dry mortar mix for fixing thermal insulation boards.



## Product Description

Field of Application

Adhesive mortar, exclusively for bonding insulation boards in Capatect facade systems.

Material Properties

- Highly water vapor permeable
- High adhesive strength and contact ability
- High stability
- Economical due to machine processing

Packaging/Package Size

25 kg bag, silos  $\geq 5$  tons

Colours

grey

Storage

Dry, protected from moisture, cool, shelf life in original sealed packaging at least 12 months.

Technical Data

Specified fixed values represent average values which, due to the use of natural raw materials, may vary slightly from delivery to delivery.

- Heat conductivity:  $\lambda_{10 \text{ dry, mat}} \leq 0,82 \text{ W/(mK)}$  for P=50% according to DIN EN 1745  
 $\lambda_{10 \text{ dry, mat}} \leq 0,89 \text{ W/(mK)}$  for P=90% according to DIN EN 1745
- Apparent density of hardened mortar: approx.  $1.7 \text{ g/cm}^3$
- Adesive tensile strength:  $\geq 0.08 \text{ N/mm}^2$  according to DIN EN 998-1
- Fire behaviour: Class A2-s1, d0 according to DIN EN 13501-1 (non-combustible)
- Capillary water absorption: Category  $W_{C2}$  according to DIN EN 998-1  
 $C \leq 0.20 \text{ kg/(m}^2\text{-min}^{0.5})$  according to DIN EN 1015-18
- Water vapour permeability (sd-value):  $\mu \leq 25$  according to DIN EN 1015-19

Product No.

185

Note

The "allgemeine bauaufsichtliche Zulassung" (general building authority approval) / "allgemeine Bauartengenehmigung" (general type approval) of the ETICS and the Technical Data Sheets of the products must be observed.



## Application

Substrate Preparation	<p>Tape off window sills and add-on parts. Carefully cover glass, ceramics, clinker, natural stone, painted, glazed and eloxated surfaces.</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 dowels.</p> <p>Contamination and substances with a separating effect (e.g. formwork oil) as well as protruding mortar burrs must be removed. Damaged, peeling paints and textured renders must be removed as far as possible. Hollow areas of render are to be chipped off and flush with the surface to be rendered.</p> <p>Highly absorbent, sanding or chalking surfaces must be thoroughly cleaned down to the solid substance and primed. The compatibility of any existing coatings with the adhesive mortar must be checked by an expert.</p>
Consumption	<p>Approx. 4.5–6.0 kg/m<sup>2</sup> Consumption values are reference values without spill and losses. Object- or process-related variations have to be taken into account.</p>
Application Conditions	<p>During application and drying, the ambient and substrate temperatures must not be lower than +5 °C and higher than +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 niedrigen Temperaturen" ("Rendering, thermal insulation, filling, coating at high and low temperatures") issued by the Bundesverband Ausbau und Fassade ("German Association for Finishing and Facades").</p> <p>In unfavorable weather conditions, suitable measures must be taken to protect the processed facade surfaces.</p>
Drying/Drying Time	<p>Depending on weather conditions, dowel or rework after 24 hours at the latest. Drying time: approx. 3-5 days depending on temperature, layer thickness and relative humidity.</p>
Tool Cleaning	<p>Immediately after use with water.</p>
Material Preparation	<p><u>Water requirement:</u> approx. 5.0 - 6.0 l per 25 kg bag. The material can be processed with all common flow mixers, but can also be mixed manually with a powerful, slow-running agitator with clean, cold water to a lump-free compound. Allow to stand and swell for approx. 10 minutes and stir again briefly. If necessary, the consistency should be readjusted with a little water after this maturing time. Depending on weather conditions, the working time is approx. 2 hours. Do not use water to make material that has already stiffened workable again.</p>
Example for Machine Equipment	<p>Berö Calypso 15 flow mixer with standard dosing or mixing helix. The guidelines of the machine manufacturer must be observed.</p> <p><u>Electrical connection:</u> 400 V rotary current/16 A in each case (construction power distributor with FI circuit breaker).</p> <p><u>Water connection:</u> 3/4" hose with GEKA, required water pressure with machine running at least 2.5 bar. <u>Water flow:</u> approx. 200 l/h The desired consistency is to be set on the fine adjustment valve of the mixer water fitting.</p>
Bonding of Insulation Boards	<ul style="list-style-type: none"> <li>■ Manual or machine processing possible</li> <li>■ Impact and bedding joints must remain free of adhesive</li> <li>■ Never seal joints between insulation boards with adhesive</li> <li>■ Fill joints ≤ 5 mm with suitable flame-resistant joint foam</li> <li>■ Close joints and gaps &gt; 5 mm with equivalent insulation strips</li> <li>■ Lay insulation boards offset in the bond and join tightly</li> <li>■ Ensure that the boards are aligned and plumb</li> <li>■ Pre-fill uncoated mineral wool insulation boards in the gluing area (press-fill)</li> </ul> <p><b>Dot-bead method</b> Application of a circumferential bead at the edge of the board and adhesive dots in the center.</p> <ul style="list-style-type: none"> <li>■ Render systems - adhesive contact area ≥ 40 %.</li> <li>■ Hard cladding systems - adhesive contact area ≥ 60 %.</li> </ul> <p><b>Full-surface bonding</b> On plane substrates, the adhesive can be applied over the entire surface by means of a notched spatula/trowel. The insulation boards must be pressed in, floated in and pressed against the substrate immediately, after 10 minutes at the latest, with the side to which the adhesive mortar was applied.</p> <p>Mineral wool lamella insulation boards must always be bonded over the entire surface.</p>

## Machine bonding (partial surface method)

Spray the adhesive compound by machine onto the substrate in the form of vertical beads. The adhesive beads must be approx. 5 cm wide and at least 10 mm thick in the center of the bead. The axial spacing must not exceed 10 cm. The insulation boards must be immediately pressed into the fresh adhesive mortar bed, floated in and pressed on. To avoid skin build-up, only as much adhesive on surface may be applied as can be immediately covered with insulation boards.

- EPS boards - adhesive contact area  $\geq 60\%$ .
- Mineral wool insulation boards - adhesive contact area  $\geq 50\%$ .

### Note

Bonding types depend on the insulation materials to be used and the type of ETIC systems, please refer to the information provided in the general building approval / general design approval as well as the data sheets of the respective insulation material.

## Advice

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

Causes skin irritation. Causes serious eye damage. If medical advice is needed, have packaging or label at hand. Keep out of the reach of children. Do not breathe dust or mist. Wash skin thoroughly after use. Wear protective gloves/ eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if possible. Continue rinsing. Immediately call POISON CENTER/ doctor. Contains: Cement, Portlandcement, chemicals, calcium dihydroxide. Aqueous cement slurries have an alkaline effect.

Disposal

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.

Only empty bags (without trickling) for recycling. Dispose of hardened material residues as mixed construction and demolition waste.

Giscode

ZP1

Further Details

### Assessments and approvals:

Germany: Z-33.41-130 | Z-33.43-132 | Z-33.44-133 | Z-33.46-1091  
Europe: ETA-09/0368

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