

# Capatect Kleber 181

Mineral dry mortar premix for bonding thermal insulation boards



Field of Application	Bonding mortar, particularly suitable expanded polystyrene and mineral wool insulation boards. Suitable for use within Capatect ETICS 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 Capatect ETICS systems</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 formula</li> <li>■ Mineral binder, cement-based with adhesion promoter</li> <li>■ Balanced compound of quartz and calcite fillers</li> </ul>
Packaging/Package Size	25 kg
Colours	Reddish grey
Storage	Store in a dry area, cool, frost-free and protected against exposure to direct sunlight. Low chromate
Technical Data	<ul style="list-style-type: none"> <li>■ Bulk density: 1.5 kg/dm<sup>3</sup></li> <li>■ Adherence to concrete after 28 days: 0,72 N/mm<sup>2</sup></li> <li>■ Fire reaction classification: A1 – not combustible</li> </ul>
Shelf life	12 months in tightly closed, original packaging.

## Application

Substrate Preparation	Masonry, concrete or sound existing coatings must be clean, dry, adherent, sound/solid/stable, and free from all substances that may prevent good adhesion, e.g. formwork oil. Remove mortar burrs and all unsound, flaking/peeling off existing paints and textured renders/ plasters. Chip off all render/plaster areas showing cavities (local separation) and repair to match the surrounding surface. Clean highly absorbent, sanding or chalking surfaces thoroughly up to the solid substrate level and prime with concentrate Sylitol-Konzentrat 111.
Consumption	<p><b>Expanded polystyrene boards:</b>                      Bead-point method: approx. 4.0 – 4.5 kg/m<sup>2</sup>                      Full-surface bonding: approx. 5.0 – 7.0 kg/m<sup>2</sup></p> <p><b>Mineral wool boards:</b>                      Bead-point method: approx. 5.0 – 5.5 kg/m<sup>2</sup>                      Full-surface bonding: approx. 6.0 – 8.0 kg/m<sup>2</sup></p>



Application Conditions	<b>Application Temperature</b> During the application and drying phase temperature should not fall below +5 °C for material, substrate and ambient air. Max. application temperature: +30 °C. Do not apply under direct sunlight or during strong wind, fog or high relative humidity.
Drying/Drying Time	Adhesive mortar Capatect Kleber 181 dries due to hydration and physically by evaporation of batching water. Particularly during cooler period and at higher relative humidity the drying time is extended. The adhesive is completely dry and ready for stress after 2 to 3 days.
Tool Cleaning	Clean tools/equipment with water, immediately after use.
Material Preparation	The material can be used with all types of flow mixers or screw pumps and suitable machine equipment for render/plaster application. If manually applied it is gradually mixed into tap (potable), cold water and agitated with a suitable low-speed electric paddle until the mixture is free of lumps. Leave to stand and swell for approx. 5 minutes and stir up again. Adjust to working consistency by adding a small amount of tap (potable) water, if necessary.  Water demand: approx. 5 - 6 l/25 kg bag. Workability/pot life depends on weather conditions: In case of manual material preparation approx. 2 to 2.5 hours; in case of mechanical conveyance max. 60 minutes. Never mix slightly hardened or stiff material with water - such material is unusable.
Bonding of Insulation Boards	<b>Bead-Point-Method:</b> 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. (min. 40% of the surface must be covered with adhesive material.) Avoid mortar inside board joints.  <b>Full surface bonding</b> Apply the adhesive mortar on the full surface of the insulation board using a 10x10 mm square notched trowel.  <b>Note:</b> Before bonding mineral wool boards, apply a thin coat of adhesive on the bonding surface of the board. This will enhance adherence of the adhesive to the boards.

## Advice

Advice (Status as at Date of Publication)	Only to be used by trained operatives This mineral material has an alkaline reaction. Irritant to skin. and completely with plenty of water and seek medical advice. Wear suitable protective gloves and face protection. If swallowed, seek medical advice immediately and show the container or label. Do breathe dust.
Disposal	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.
Risk and Transportation Markings	Danger symbol: Xi – "Irritant". Contains cement. Further information: See Material Safety Data Sheets.
Giscode	ZP1
Customer Service Centre	Tel.: (+40) 265 320 354 Fax: (+40) 265 320 522 e-mail: <a href="mailto:tehnica@caparol.ro">tehnica@caparol.ro</a>  International Distribution: Please see <a href="http://www.caparol.ro">www.caparol.ro</a>