

Capatect Klebe- und Armierungsmasse 186M

Mineral ready-mixed dry mortar for use as adhesive and base coat for insulation boards, optimised for machine application



Product Description

Field of Application	Adhesive and base coat - specially developed for machine application. For use as an adhesive for mineral wool, EPS, wood fibre and PUR insulation boards. Can be used as base coat in Capatect façade systems based on EPS and MW insulation material and on load-bearing mineral substrates.
Material Properties	<ul style="list-style-type: none">■ Water repellent■ Highly water vapour permeable■ Weather resistant■ Can be applied by machine■ Very good stability■ Additives for water repellency, as well as for smooth application and good adhesion to almost all substrates
Packaging/Package Size	25 kg bag silo Big-Bag Big-Bag silo OneWay® container
	For OneWay® containers or break-off pallets, the "Capatect Wetterschutzhaube 069" is optionally available as additional weather protection.
Colours	Light grey
Storage	Dry, protected from moisture, in original sealed packaging. Application within 12 months.
Technical Data	General purpose rendering mortar (GP) according to DIN EN 998-1



■ Heat conductivity:	$\lambda_{10 \text{ dry,mat}} \leq 0,61 \text{ W/(mK)}$ for P=50% according to DIN EN 1745 $\lambda_{10 \text{ dry,mat}} \leq 0,66 \text{ W/(mK)}$ for P=90% according to DIN EN 1745
■ Resistance-count for diffusion μ (H ₂ O):	$\mu < 25$ according to DIN EN 1015-19
■ Compressive strength:	Category CS IV according to DIN EN 998-1 $\geq 6 \text{ N/mm}^2$ according to DIN EN 1015-11
■ Apparent density of hardened mortar:	ρ : approx. 1.5 g/cm^3 according to DIN EN 1015-10
■ Adesive tensile strength:	$\geq 0.08 \text{ N/mm}^2$ according to DIN EN 1015-12 Fracture pattern A, B or C
■ Fire behaviour:	Class A2-s1, d0 according to DIN EN 13501 (non-combustible)
■ Vehicle / Binding agent:	Mineral binding agents according to DIN EN 197-1 and DIN EN 459-1 synthetic resin dispersion powder
■ Capillary water absorption:	Category: W _c 2 according to DIN EN 998-1 $C \leq 0.20 \text{ kg/(m}^2\cdot\text{min}^{0.5})$ according to DIN EN 1015-18

Product No. 186M

Note The fixed values stated represent average values that may vary slightly from delivery to delivery due to the use of natural materials.
The "allgemeine bauaufsichtliche Zulassung" (general building authority approval) / "allgemeine Bauartengenehmigung" (general type approval) of the ETICS or VHF and the product and the data sheets of the products must be observed.

Application

Suitable Substrates	Masonry and concrete with or without render, firmly adhering ceramic cladding, wood and panel materials as well as load-bearing old paints or coatings. Insulation boards in accordance with ETICS approvals.
Substrate Preparation	Mask off window sills and add-on parts. Carefully cover glass, ceramics, clinker, natural stone, painted, glazed and anodised surfaces. The substrate must be solid, dry, free of grease and dust and, if necessary, have sufficient load-bearing capacity for the use of anchors. The substrate must be firm, dry, free of grease and dust and, if necessary, have sufficient load-bearing capacity for the use of anchors. Remove dirt and substances with a separating effect (e.g. formwork oil) as well as protruding mortar burrs. Damaged, peeling paints and textured plasters must be removed as far as possible. Hollow areas of plaster are to be knocked off and flush with the surface. 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 material must be checked by an expert.
Preparation of Material	25 kg material (one bag) in approx. 6.0 - 6.5 l water. The material can be mixed to a lump-free mass using a powerful, slow-running stirrer or compulsory mixer and clean, cold water. Work through again after approx. 3-5 minutes. If necessary, adjust the consistency with a little water after this maturing time. Depending on the weather, the working time is up to 1.5 hours (pot life). Do not use water to make material that has already set workable again.
Consumption	<u>Bonding of Thermal-Insulating Boards</u> approx. $4.5 - 6.0 \text{ kg/m}^2$ <u>Base coat:</u> approx. 1.5 kg per mm layer thickness per m^2 (e.g. corresponds to approx. 6.0 kg/m^2 with a layer thickness of 4 mm) These consumption figures are approximate values. Deviations depending on the object or processing conditions must be taken into account. <u>Layer thickness of the base coat:</u> 3-5 mm
Application Conditions	During the application and drying phase, the ambient and substrate temperatures must not be below $+5^\circ\text{C}$ and above $+30^\circ\text{C}$. 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) from the Bundesverband Ausbau und Fassade (Federal Association for Finishing and Facades).

Drying/Drying Time

In case of unfavourable weather conditions, take suitable measures to protect the processed facade surfaces.

Primer and intermediate coats must be dry before further recoating. The waiting time for recoating depends on temperature, humidity, air movement and sunlight. The information is therefore intended as a guide. Any necessary anchoring should only be carried out after the adhesive bed has sufficiently matured. The base coat must be sufficiently evenly dried.

Waiting time after adhesion

- at least 24 hours

Waiting time after Base coat application

- Mineral finishing renders at least 1 day per mm layer thickness, but at least 24 hours
- Pasty finishing renders at least 5 days

Tool Cleaning

Immediately after use with water.

Example for Machine Equipment

- Continuous mixer e.g. inoMIX F51 or m-tec D10
- Conveying pump e.g. m-tec P 25 V
- Mixing pump e.g. InoCOMB Maxi power or PFT G4

Conveying hoses:

Primary hoses - inner-Ø 35 mm; End hose - interior Ø 25 mm

Conveying distances/height:

Maximum conveying distance 50 m; maximum conveying height 20 m (depending on temperature)

Spraying unit:

Nozzle Ø 8 - 12 mm

Pre-rinse conveying hoses with lime slurry or adhesive before regular operation.

If work is interrupted, do not leave the delivery hose in direct sunlight, cover the material container with foil, for example, and keep the gun and nozzle under water. Do not leave for more than 30 minutes before continuing work, otherwise the material in the hose may harden.

Before a work break, the material container in the conveying pump of the "open system" (continuous mixer + conveying pump) must be emptied as far as possible to prevent material tunnelling when restarting. If this is not adhered to, the material may have to be made "passable" before the machine is started up (with the machine switched off). Further information on this can be found in the "Spraying technology manual".

The specifications of the machine manufacturer must be observed.

Bonding of Insulation Boards

- Manual or mechanical processing possible
- Lay insulation boards offset by at least 10 cm in a bond and butt joint tightly
- Butt joints and bedding joints must remain free of adhesive
- Never seal joints between insulation boards with adhesive.
- Fill joints ≤ 5 mm with suitable flame-retardant joint foam
- Close joints and voids > 5 mm with equivalent insulation strips
- Interlock insulation materials at the corners of the building
- Ensure that the boards are aligned and plumb
- Pre-fill uncoated mineral wool insulation boards in the bonding area (press-fill)
- Damaged insulation boards must not be installed

Bead-dot method

Apply a surrounding bead at the edge of the board and adhesive dots in the middle.

- Render systems - adhesive contact area ≥ 40 %.

Full-surface bonding

On level substrates, the adhesive can be applied over the entire surface using a notched spatula/notched 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. Mineral wool lamella insulation boards must always be glued over the entire surface.

Machine bonding (partial-surface method)

Apply the material by machine to 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 centre of the bead. The centre-to-centre distance 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 formation, only as much adhesive surface may be applied as can be immediately covered with insulation boards.

- EPS boards - adhesive contact area ≥ 60 %.
- Mineral wool insulation boards - adhesive contact area ≥ 50 %.

Reinforcement Layer

To ensure a consistently even surface and to stabilise the insulation surface of mineral wool insulation boards, levelling is recommended before applying the base coat. To do this, pre-fill a first layer with the reinforcement mortar to a thickness of approx. 2 mm and allow to thoroughly cure.

- In the corner area of building openings, additionally embed Capatect diagonal reinforcement, lintel corner profile or mesh strips (approx. 25 x 25 cm) diagonally into the reinforcement.
- Insert rendering profiles, corner beads and profiles into the base coat over the entire surface and align. When using "Capatect Gewebe Eckschutz" only guide the mesh strips up to the edge.
- Apply the base coat with a stainless steel trowel or by machine. Check the layer thickness with an appropriate notched trowel. The layer thickness of the base coat must be consistent.
- Embed the "Capatect Gewebe 650" over the entire surface so that it is centred for base coat layer thicknesses up to 4 mm and in the upper third for layer thicknesses above 4 mm.
- Butt joints of the mesh must be overlapped by approx. 10 cm.
- Subsequently fill over wet-on-wet to ensure full coverage of the mesh.

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 product container or label at hand. Keep out of reach of children. Read carefully and follow all instructions. Wash skin thoroughly after handling. Wear protective gloves/ eye protection/ face 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. Contains: Cement, portland, chemicals, calcium dihydroxide. Aqueous cement suspensions have an alkaline effect.

Additional information: 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.

Disposal

Can be landfilled after concentration, when in compliance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

Giscode

ZP1

Further Details

See Material Safety Data Sheet (MSDS).

Assessments and Approvals:

Europe: ETA-12/0383, ETA-07/0184, ETA-08/0304, ETA-10/0436, ETA-09/0368, ETA-11/0300, ETA-13/0890, ETA-13/0891

Germany: Z-33.41-130, Z-33.42-1739, Z-33.43-132, Z-33.43-1667, Z-33.43-1707, Z-33.44-133, Z-33.46-1091, Z-33.46-1720, Z-33.46-1732, Z-33.47-859

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