Capatect X-TRA 300

Mineral based adhesive and base coat for mechanically stressed facade surfaces in Capatect Façade systems

CE

Product Description

Field of Application

Impact-resistant, low dusting adhesive and base coat for Capatect façade systems with EPS, MW and PUR insulation materials. Can be used in layer thicknesses of 4-20 mm depending on the insulation material and system used.

Material Properties

- Carbon fibre reinforced
- Increased algae and fungus protection and better sound insulation with thick-layer construction
- Low dusting for increased health protection
- Highly water vapour permeable, water repellent
- Excellent workability, high adhesive strength
- Can be used on old, cracked mineral and load-bearing substrates

Packaging/Package Size

25 kg bag, pressure silo (from 5 to)

Colours

natural white

Storage

Cool, dry and frost-free. Protect from direct sunlight.
Shelf life of originally closed containers is approx. 12 months.

Technical Data

- Normal render mortar according to DIN EN 998-1
- Dusting behaviour: Low dusting (S_A) according to DIN EN 15051-3

Heat conductivity:	$\lambda_{10, dry, mat} \leq 0{,}45$ W/(mK) für P=50% according to DIN EN 1745 $\lambda_{10, dry, mat} \leq 0{,}49$ W/(mK) für P=90% according to DIN EN 1745
Resistance-count for diffusion μ (H_2O):	μ ≤ 25 according to DIN EN 998-1 (diffusion resistance factor)
Diffusion-equivalent air layer thickness s_dH_2O:	s_d < 0.1 m according to DIN EN ISO 7783
Compressive strength:	Category CS III according to DIN EN 998-1
Apparent density of hardened mortar:	approx. 1.3 kg/dm³ according to DIN EN 998-1
Adesive tensile strength:	≥ 0.5 N/mm² according to DIN EN 998-1
Fire behaviour:	A2-s1, d0 according to DIN EN 13501-1 (non flammable)
Vehicle / Binding agent:	Polymer modified mineral binders according to DIN EN 197-1 Synthetic resin dispersion powder
Capillary water absorption:	Category W_C0 according to DIN EN 998-1 C [kg/(m²·min^{0,5})] not specified according to DIN EN 1015-18

Product No.

300

CAPAROL

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

Preparatory work:
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 dowels. Remove impurities 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 adhesive mortar must be checked by an expert.

Preparation of Material

Capatect X-TRA 300 can be processed with all common continuous mixers, screw feed pumps and rendering machines, but can also be mixed manually with a powerful, slow-running agitator using clean, cold water to form a lump-free mass. Allow to mature for approx. 3-5 minutes and stir again briefly. If necessary, adjust the consistency with a little water after this maturing time.

Mixing: 25 kg material (one bag) in approx. 9-10 l water.
Do not use water to make material that has already set workable again.

Please obtain special information on machine processing from Silo and Machine Technology.

Consumption

As adhesive for insulation boards:
approx. 4.0 - 5.0 kg/m²

As base coat:
approx. 1.3 kg/m² per mm thickness; i.e. approx. 5.2 kg/m² for a layer thickness of 4 mm

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

Layer thicknesses as base coat:

on PUR insulating materials: 4-6 mm
on EPS insulation materials: 4-8 mm
on MW insulation materials: 4-20 mm

Application Conditions

During The application and in the drying phase, the ambient and substrate temperatures must not be below +5 °C and above +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 tiefen Temperaturen" (Rendering, Thermal Insulation, Filling, Coating at High and Low Temperatures) from the Bundesverband Ausbau und Fassade (Federal Association for Finishing and Facades).
In case of unfavourable weather conditions, suitable measures must be taken to protect the processed façade surfaces.

Drying/Drying Time

As adhesive
Depending on weather conditions, dowel or overcoat, after 24 hours at the earliest.

As base coat
The curing time is approx. 1 day per mm application thickness, depending on temperature, layer thickness and relative humidity.
At 20 °C and 65 % relative humidity, the base coat is surface-dry after 24 hours.

For base coat thicknesses up to approx. 6 mm, depending on the weather, mineral textured renders can be applied after 2 days at the earliest, with synthetic resin or silicone resin renders after 5 days at the earliest, with higher base coat thicknesses or unfavourable weather conditions correspondingly later.

Tool Cleaning

Immediately after use with water.

Example for Machine Equipment

Please obtain special information on machine application from Silo and Machine Technology.

Reinforcement Layer

- Embed the reinforcement mesh over the entire surface in such a way that it is in the middle of the base coat up to 4 mm thick and in the upper third above 4 mm thickness.
- Overlap the fabric joints by approx. 10 cm.
- In the corner area of building openings, additionally embed diagonal mesh strips or mesh strips (approx. 25 x 25 cm) diagonally into the base coat.
- The thickness of the base coat must be uniform.
- Beads adapted to the render thickness must be embedded in the base coat.

Application of the base coat 4 - 10 mm
Lay the "Gewebe-Eckschutz" and diagonal mesh in the base coat over the entire surface before base-coating and align. Apply material according to desired layer thickness by machine or manually in one layer or in two layers (wet in wet) with stainless steel trowel. Lay "Capatect Gewebe 650" or "Capatect Gewebe 666" into open mortar bed and level.

Alternatively, apply the base coat in approx. 2/3 of the total layer thickness by machine or manually with a stainless steel trowel. Check the layer thickness with an appropriate toothed trowel. Place "Gewebe-Eckschutz" and diagonal mesh on the dried layer and align. Apply base coat to the desired total layer thickness over the entire surface and free of air voids. Lay Capatect Gewebe 650 or 666 into open mortar bed and level.

Application of the base coat > 7 - 20 mm
For layer thicknesses > 7 mm, work in two layers. The thickness of the second layer must be less than that of the first. Before base-coating, place the corner beads, which have been adjusted to the thickness of the first layer, in the base coat over the entire surface and align.

Apply the base coat in approx. 2/3 of the total layer thickness manually or mechanically in one layer and cut it. Allow base coat to dry. Lay the "Gewebe-Eckschutz" and diagonal mesh over the entire surface of the first layer in the base coat, free of air voids, and align.

Before applying the second layer, the first layer must be set but not completely dry. Apply the second layer by machine or manually, covering the entire surface and free of air voids. Lay "Capatect Gewebe 650" or "Capatect Gewebe 666" into open mortar bed and level.

Equivalent procedures are possible.

Bonding of Insulation Boards

Application as adhesive
- Manual or machine application possible
- 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
- Lay the insulation boards in a staggered pattern and butt them tightly together.
- Ensure that the application is flush and perpendicular.
- Pre-fill uncoated mineral wool insulation boards in the bonding area (press-fill)

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 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 was applied. Mineral wool insulation boards must always be glued over the entire surface.

Machine bonding (partial surface method)
Apply the adhesive to the substrate by machine 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 directly laid with insulation boards.

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

Advice

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.

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

Empty containers should be taken to an approved waste management facility for recovery or disposal. The product can be deposited after solidification in compliance with local authority regulations. EWC 170904

Giscode

ZP1 (products containing cement, of low chroate contents)

CE Labelling

Note on declaration of performance / CE marking:
The marking with the CE symbol according to EN 998-1 is made on the packaging as well as the data sheet for the service declaration / CE marking, which can be accessed on the Internet at www.caparol.de.

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