

Capatect SockelFlex Carbon

Two-component, carbon fiber-reinforced filler for bonding and reinforcing insulation boards, as well as producing a moisture protection coating in the base/ground contact area (plinth area) and as a sealant under window sills.

Product Description

Field of Application

Bonding

Bonding of plinth and perimeter insulation boards in splash water areas and up to a depth of 20 cm below the top edge of the ground on facades. (Water impact class W4-E)

Reinforcement

Reinforcement of plinth and perimeter insulation boards in splash water areas and up to a depth of 20 cm below the top edge of the ground on facades. (Water impact class W4-E)

Moisture protection

As primer, slurry or trowel coat on mineral base coats such as "Capatect Klebe- und Armierungsmasse 186M", "Capatect Klebe- und Spachtelmasse 190" etc. As moisture protection coat on top coats/renders in splash water and ground contact areas.

Horizontal sealing under window sills

As horizontal sealing layer under aluminum window sills when they are applied subsequently to a Capatect facade system.

Material Properties

- Reliable protection against water penetration in the application areas
- 2-component bucket (powder + carbon fiber reinforced paste component)
- Impact resistance of 20 joules
- Water repellent
- Water vapor diffusible
- Alkali and frost resistant
- Versatile dispersion compound adhering to bitumen
- with high adhesive strength and good stability, very elastic (crack-bridging)

Packaging/Package Size

18 kg bucket as combi-bundle:
Component A: 9.0 kg, Component B: 9.0 kg (3 x 3 kg)

Colours

Brown grey after mixing

Storage

Cool, dry and frost-free. Shelf life approx. 1 year in original sealed bucket.
Of low chromate content to RL 2003/53 / EG.
Limit guaranteed up to 6 months after production date by a reducing agent (see batch number).



Technical Data

- Density: approx. 1.24 g/m³ (without powder component)
approx. 1.35 g/m³ (mixed 1:1)
- Diffusion-equivalent air layer thickness s_{dH_2O} : approx. 2.2 m according to DIN EN ISO 7783 (at 2 mm)
- Consistency: unmixed: powdery and pasty
mixed: pasty
- Vehicle / Binding agent: Copolymer resin emulsion, cement
- Water permeability (w-value): approx. 0.02 kg/(m²h^{1/2}) according to DIN EN 1062-3
Class W3 (low) according to DIN EN 1062

Application

Substrate Preparation

Masonry, concrete or firmly adhering coatings must be clean, dry and load-bearing. Contamination and substances with a separating effect (e.g. formwork oil) as well as protruding mortar burrs must be removed. Damaged, peeling old coats and textured plasters must be removed. Hollow areas of plaster must be chipped off and then rendered flush with the surface.

Highly absorbent, sanding or chalking surfaces must be thoroughly cleaned down to the solid substance and primed with Sylitol® RapidGrund 111.

Bituminous substrates must be sufficiently deaerated.

Consumption

Area of application	mixed material
Adhesive for insulation boards	approx. 4,0 kg/m ²
Base Coat	
with nominal layer thickness 3 mm	approx. 4,5 kg/m ²
per mm layer thickness	approx. 1,4 kg/m ²
Moisture protection layer	
as coating	approx. 1,0 kg/m ²
as filler layer	approx. 1,4 kg/m ² /mm

Determine exact material requirements by trial coating on the object.

Application Conditions

Do not apply on moist substrates.

During 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 bei hohen und tiefen Temperaturen" (Plastering at high and low temperatures) published by the Deutscher Stuckgewerbebund.

Drying/Drying Time

approx. 24-72 hours depending on temperature, layer thickness and relative humidity.

If fixing with dowels is necessary, this should only be carried out after sufficient consolidation of the adhesive bed, i.e. after approx. 1-2 days. The adhesive is fully dry and loadable after approx. 48-72 hours.

At 20 °C and 65 % relative humidity, the reinforcing layer is surface dry after approx. 24 hours.

"Capatect SockelFlex Carbon" dries by hydration and physically, i.e. by evaporation of the mixing water. Particularly in the cool season and at high humidity, therefore, a delayed drying is given. To protect against the effects of rain during the drying phase, cover the scaffold or plinth area with tarpaulins if necessary. Observe DIN 18550-1 and DIN 18350, VOB, Part C for application and execution.

Tool Cleaning

Immediately after use with water.

Material Preparation

Immediately before application, mix the powder and paste components of Capatect SockelFlex Carbon in a ratio of 1 : 1 and stir thoroughly with an electric stirrer until a homogeneous, lump-free consistency is obtained. Do not use water to make already stiffened material workable again.

Adjust to working consistency with max. 10 % water when used as a coating.

Do not mix more material than can be processed within 30 minutes at 20-25 °C.

Application

Processing as adhesive

Capatect SockelFlex Carbon is bonded using the edge bead point method with at least 40 % adhesive contact area. In the case of flat substrates, the adhesive can also be applied over the entire surface using a 10 x 10 mm or 15 x 15 mm notched trowel on the substrate or on the insulation material. To avoid skin formation, only apply as much adhesive as can be directly covered with insulation boards. The insulation boards are bonded in a bond from bottom to top in a press-fit manner and pressed firmly to the substrate with light pushing movements.

Processing as base coat

Apply in a layer thickness of approx. 2 - 3 mm and comb through with a 10 x 10 mm notched trowel. Lay Capatect Gewebe 650 in open mortar bed overlapping by 10 cm and level. In corner areas of building openings additionally embed "Capatect Diagonalarmierung 651/00" or mesh strips (25 x 25 cm) diagonally into the reinforcement. Prime with "Putzgrund 610" before applying the top coat (render). The following finishing coats are possible: "Capatect ThermoSan-Fassadenputz NQG", "Capatect AmphiSilan Fassadenputz NQG und Fein", "Capatect Buntstein-Sockelputz 691", "Capatect Fassadenputz", "Capatect Fassadenputz Fein". "Capatect SockelFlex Carbon" can be overpainted with e.g. "ThermoSan" and "AmphiSilan".

Application as moisture protection

As a coating, dilute with max. 10 % water and apply by brush until saturated (consumption quantities must not be fallen short of). If the finishing coat/top coat (render) is applied to the ground, this area must be painted twice up to 5 cm above ground level. In the perimeter area, a protective layer (e.g. dimpled sheet with fleece) must be provided on site to protect against damage. Apply as a filler layer in a layer thickness of at least 2 mm (consumption quantities must not be undercut).

Application as waterproofing under aluminum window sills

Install insulation board or insulation wedge according to window sill inclination of at least 5°. Apply the appropriate base coat including reinforcement mesh in the area of the window sill parapet and guide it up into the side reveal. Apply 2 coats of "Capatect SockelFlex Carbon" (min. 1 kg/m² per coat) to form a trough-shaped sealing layer. Apply "Capatect SockelFlex Carbon" in the side reveal at least 2 cm or up to the height of the curb profile upstand. The window sill is fixed to the dried waterproofing by means of window sill adhesive "Capatect Kleber SP 350". The adhesive is applied in bead form at a distance of max. 30 cm in drainage direction of the window sill.

Advice

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

Pasty component: VOC content according to Directive 2004/42/EC < 1 g/l.

Warning. May cause an allergic skin reaction. Do not get in eyes, on skin, or on clothing. Wear protective gloves/ eye protection. IF ON SKIN: Wash with plenty of soap and water. Contains: 1,2-benzisothiazol-3(2H)-one, 2-methylisothiazol-3(2H)-one, reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). Use dust filter P2 for grinding work. Do not inhale spray mist. Use combination filter A2/P2. Hotline for allergy inquiries and technical advice: 0800/1895000 (free of charge from German landlines). Disposal: Dispose of liquid material residues at the collection point for old paints/lacquers, dispose of dried material residues as construction and demolition waste or as municipal or household waste. The technical information must be observed. Declaration of ingredients according to VdL Guideline 01: polyacrylic resin, calcium carbonate, silicates, water, aliphatics, additives, Preservative.

Powder component: VOC content in accordance with Directive 2004/42/EC: This product contains max. 1 g/l.

Hazard statements/Precautionary statements: May cause respiratory irritation. Causes serious eye damage. Causes skin irritation. Keep out of reach of children. If medical advice is needed, have product container or label at hand. Wear protective gloves/ eye protection. Use only outdoors or in a well-ventilated area. Do not breathe dust or mist. 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. Contains: Cement, Portland, chemicals, hexacalcium hexaoxotrisdialuminate(12-), dialuminum calcium tetraoxide. Aqueous cement slurries have an alkaline effect. Disposal: The technical information must be observed. Declaration of ingredients according to VdL Guideline 01: Cement.

Disposal

Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local authorities.

In Germany: Dispose containers with residues of liquid product via waste collection point accepting old paints and enamels. Dispose dried/hardened product residues as construction site/demolition/ municipal or domestic waste.

Only completely emptied containers should be given for recycling.

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