

CarboNit

Highly impact-resistant, carbon fibre reinforced and water-resistant 2-component reinforcing compound for use in the area of plinth

powered by



Product Description

Field of Application	Shock and impact-sensitive walls, for example at doorways, in plinth area or along dustbin spaces.
Material Properties	2-component carbon fibre reinforced, highly impact-resistant reinforcing compound for generating a two-layered reinforced rendering in the area of plinth walls. Thickness: total min. 8 ; 1st layer min. 5 ; 2nd layer min. 3 . Suitable for use in the area of splashing water due to a water repellent formulation, optimised especially for the area of plinths.
Material Base / Vehicle	Synthetic resin emulsion with filler of calcium aluminates, calcium silicates and magnesium oxide.
Packaging/Package Size	25 kg in combined package (22 kg bucket with past-like component and 3 kg inlay-bag of PowerPowder)
Colours	<ul style="list-style-type: none"> ■ Past-like component: Light beige ■ PowerPowder: White
Storage	Cool, frost-free place. Protect from direct solar radiation. Shelf life of tightly closed, original packaging: approx. 6 months.
Technical Data	<ul style="list-style-type: none"> ■ Heat conductivity: 0.70 W/mK ■ Resistance-count for diffusion μ (H₂O): 120 ■ Shock resistance / Impact strength: <ul style="list-style-type: none"> ● > 50 Joule (reinforcing layer thickness: 8 mm applied in 2 layers) See RMI Test Report No. 2007/14-15 ● Certified for protection against flying balls according to DIN 18032 ● Hail protection: HW 5 according to Swiss guideline VKF
Product No.	9815

Application

Substrate Preparation	<p>Before the installation of perimeter insulation the building needs a protection against soil moisture according to the local situation.</p> <p>Necessary drainage will not be replaced by a perimeter insulation with Carbonite reinforcement.</p> <p>Other Capatect EPS thermal insulating-boards may be used in the visible plinth area.</p>
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TECHNICAL INFORMATION NO. 9815

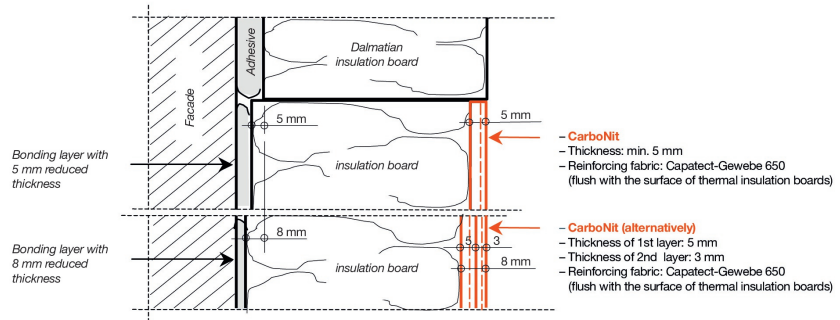
Preparation of Material	<p>Add the PowerPowder component into the liquid component by stirring intensively with a low-speed electrical paddle (agitator; max. 400 rpm) until a homogeneous material, free of lumps, is achieved. The quantity of both components is exactly matched; do not add any other additives.</p> <p>Mixed material has a pot life of approx. 30 minutes (at 20 ° C). Higher temperatures shorten and lower temperatures extend the pot life.</p>
Method of Application	<p>CarboNit is applied in two layers.</p> <p>Apply the first layer of CarboNit with a notched trowel in the width of reinforcing fabric sheets. Embed the Capatect-Gewebe 650/110 (reinforcing fabric) thoroughly into the freshly applied layer with an overlap of min. 10 cm along joint areas.</p> <p>Subsequently apply again CarboNit, wet-on-wet, to guarantee complete cover/ embedding of the fabric sheets. The reinforcing fabric must be embedded in the upper third of the reinforcement layer.</p> <p>Minimum thickness of the first reinforcement layer in total: 5 mm.</p> <p>Allow to dry for approx. 24 hours (depending on climatic conditions) and apply a second layer of reinforced CarboNit in the same way than before. The reinforcing fabric must be embedded in the middle.</p> <p>Minimum thickness of the second reinforced layer: 3 mm.</p> <p>See below detailed information for CarboNit in combination with further reinforcements and transition of façade surfaces to the plinth area (base wall masonry), flush with the surface.</p>
Consumption	<p>Approx. 13.5 kg/m² of the mixture for a layer thickness of min. 8 mm - included CarbonNit PowerPowder (i. e. approx. 1.7 kg per 1 mm of layer thickness)</p>
Application Conditions	<p>Processing temperature during application and curing: +5 ° C to +30 ° C for material, substrate and atmosphere. Do not apply under direct sunlight or during strong wind, fog and high relative humidity.</p>
Drying/Drying Time	<p>At 20 ° C and 65 % RH surface-dry after 24 hours, completely dry and ready for stress after approx. 3 days. CarboNit hardens by chemical reactions and physically by evaporation of water. Particularly during cooler period and at higher relative humidity the curing time is extended.</p>
Tool Cleaning	<p>Immediately after use with water.</p>

Reinforcement Layer

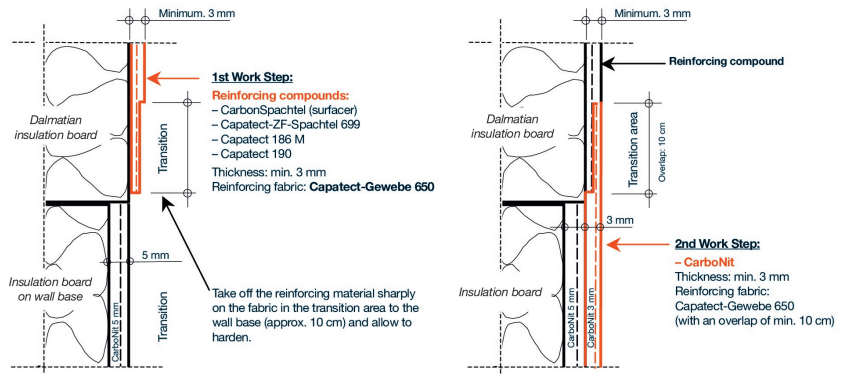
Material Combinations with CarboNit			
Plinth	Reinforcing Layer	Textured Render/Plaster	Paint Coat
CarboNit	CarbonSpachtel ZF-Spachtel 699	ThermoSan Fassadenputz AmphiSilan Fassadenputz Capatect-Fassadenputz Capatect Fassadenputz Fein Sylitol Fassadenputz (with Putzgrund) Meldorfer- Flachverblender (flat facing bricks only on ZF699)	AmphiSilan ThermoSan Muresko (not to apply on Meldorfer flat facing bricks)
		ThermoSan Fassadenputz AmphiSilan Fassadenputz Capatect-Fassadenputz Fassadenputz Fein Meldorfer- Flachverblender (each with primer Putzgrund)	
	Capatect 186M Capatect 190 (each with Putzgrund on CarboNit)	Sylitol Fassadenputz Mineral-Leichtputz Mineralputz	SI-Fassadenfinish 130

Note To avoid lapping, care should be taken to apply the material wet-on-wet without interruption. Do not mix Carbon products with other materials to preserve the special product features. Do not apply on horizontal surfaces exposed to rain or moisture.

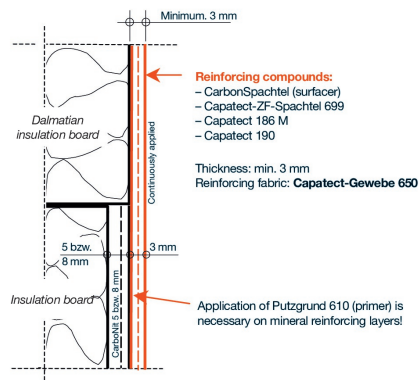
Bonding of external thermal insulation boards and 1st and 2nd CarboNit layers, d = 5 mm or 8 mm (set-off of external thermal insulation board)



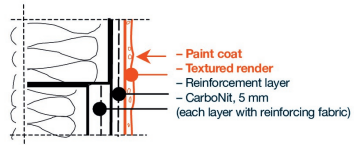
Coating of external thermal insulation boards with a 2nd CarboNit coating, d = 3 mm



Alternative: Coating of insulation boards with a continuous reinforcement layer



Finish with Render and Paint Coat



Combinations of reinforcement products with CarboNit on plinth (5 ore 8 mm)

"over all" Reinforcing Layer	Render / Plaster	Paint
CarboNit without priming <ul style="list-style-type: none"> ■ CarbonSpachtel ■ Capatect-ZF-Spachtel 699 	<ul style="list-style-type: none"> ■ AmphiSilan Fassadenputz ■ Capatect-Fassadenputz ■ Capatect-Fassadenputz Fein ■ Sylitol-Fassadenputz, with Putzgrund 610 ■ Meldorfer-Flachverblender 	<ul style="list-style-type: none"> ■ AmphiSilan ■ ThermoSan ■ Capatect-SI-Fassadenfinish 130 ■ Muresko (not on Meldorfer-Fachverblender)
CarboNit primed with Putzgrund 610: <ul style="list-style-type: none"> ■ Capatect-Klebe- und Armierungsmasse 186M ■ Capatect-Klebe- und Spachtelmasse 190 	<ul style="list-style-type: none"> ■ Sylitol-Fassadenputz ■ Capatect-Mineral-Leichtputz ■ Capatect-Mineralputz 	<ul style="list-style-type: none"> ■ Capatect-SI-Fassadenfinish 130

Advice

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

CarboNit Power Component:

Causes skin irritation. Causes serious eye damage. May cause respiratory irritation. Do not breathe dust or mist. Do not get in eyes, on skin, or on clothing. Use personal protective equipment as required. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: Get immediate medical advice/attention.

CarboNit Liquid Component:

Keep out of reach from children. Ensure good ventilation during use and drying. Do not eat, drink or smoke while using the paint. In case of contact with eyes or skin, immediately and thoroughly rinse with water. Do not allow product to enter drains, waterways or soil. Clean utensils immediately after use with soap and water. Do not breathe spray dust.

Disposal

CarboNit Liquid Component:

Only completely emptied containers should be given for recycling. Dispose containers with residues of liquid material as remnants of water-based paints.

CarboNit Power Component:

Only completely emptied sacks (non-trickling) should be given for recycling. Dispose containers with hardened material like hardened paints waste as mixed construction and demolition waste.

Risk and Transportation Markings

See Material See Safety Data Sheets (MSDS).

Giscode

CarboNit Powder Component:

ZP1

Product Code Paints and Enamels

CarboNit Liquid Component:

M-DF01

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