

Capatect ThermoSan Fassadenputz NQG

Ready-to-use lightweight render as per DIN EN 15824, based on hybrid binder with Nano-Quartz Matrix Technology for clean façades.



Product Description

Field of Application

Ready-to-use textured renders with Nano-Quartz Matrix Technology for

- Capatect ETICS B
- Capatect ETICS Carbon EXTRA
- Capatect ETICS Natur+
- Uncoated concrete
- Plaster layers of mortar groups PII (lime-cement mortar) + PIII (cement mortar) as per DIN 18550-1
- Matt, sound coatings of emulsion paints and silikates
- Not suitable for timber and plastic or substrates with efflorescence

Material Properties

- Reaction to fire: A2-s1, d0 as per DIN EN 13501-1
- Binder combination: Silicate organo hybride dispersion and silicone resin emulsion
- High colour stability
- Low consumption
- Highly water vapour permeable
- Weather-resistant, water-repellent
- Water-thinnable
- Ecologically compatible (eco-friendly), low odour
- Provided with a preservative against deterioration in the coating due to algal and fungal attack
- Easy to apply (ductile consistency)
- Various design options due to different grain sizes

Packaging/Package Size

20 kg bucket

Colours

White

Special tints available via ColorExpress tinting machine system according to colour guides CaparolColor, Caparol 3D System and Caparol A1. Further shades with luminosity > 20 on request. Luminosity < 20 is unsuitable for use within ETICS B. Shades with luminosity down to 10 is possible by using reinforcing material CarboNit or CarbonSpachtel.

Luminosity down to 5 is possible within the Capatect Carbon Extra system on mineral fiber boards.

Dark shades within the Capatect Carbon Extra system may require an additional equalizing coat of ThermoSan NQG³ façade paint, due to the contrast ratio between reinforcement layer and finishing render/plaster.

Small quantities can be tinted with CaparolColor or Amphibolin colourants (max. 2 % to avoid low consistency).

Gloss Level

Matt

Storage

Cool, dry, frost-free and protected from direct sunlight.



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Technical Data

- Density: Approx. 1.3 g/cm³
- Diffusion-equivalent air layer thickness s_{dH_2O} : < 0.07 m
- Fire behaviour: A2-s1, d0 as per DIN EN 13501-1
- Coefficient of water absorption: $w < 0.1 \text{ kg}/(\text{m}^2 \cdot \text{h}^{0.5})$
- Consistency: Paste-like

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Application

Substrate Preparation

The substrate must be even, clean, dry, solid, sound and free from all substances that may prevent good adhesion. In Germany follow VOB, part C, DIN 18 363, paragraph 3. Remove unsound coatings of enamels, emulsion paints, synthetic renders/plasters and unsound mineral paint coatings completely. Clean adherent paint coatings dry or wet.

Clean surfaces infested with organic growth (mould, moss, algae) with a high-pressure water jet in compliance with the regulations. Then treat the surface with Capatox and allow to dry thoroughly. Clean surfaces contaminated with industrial gases or soot by high-pressure cleaner and suitable cleaning agent, in compliance with the regulations.

Method of Application

Apply all textured render with a stainless steel trowel or suitable spraying equipment homogeneously to surface sections. Rub off immediately to the grain size and take off excessive slurry. Treat the K-type render evenly with a plastic trowel, PU- or EPS-board by circularly "ironing". Groove the R-type render horizontally, vertically or circularly with a plastic trowel as desired.

The surface roughness is influenced by the chosen tool, hence always the same type of texturing tool should be used. For spray application the nozzle size depends on particle sizes. Working pressure: 0.3 to 0.4 MPa (3 to 4 bar).

Apply thoroughly an homogenous layer during spray application. Avoid visible overlapping that may be caused by storeys of scaffolding. Always the same craftsmen should finish one part of the surface to achieve an even texture. To avoid lapping on large area surfaces, care should be taken to have a sufficient number of hands/craftsmen on the job and to apply the material wet-on-wet without interruption.

Granules and filler are natural products. It may occasionally cause slight colour variation in the finished coating. Use only material with identical batch number or - if using material from different batches - mix the entire quantity in advance.

Surface Coating System

Putzgrund 610 has to be tinted in the same shade as primer for an colourfull plaster. Allow drying of intermediate coat before further application

Capatect-ETICS:

- **New reinforcement layers based on mineral mortars:** Prime with Putzgrund 610.
- **New cement-free reinforcement layers in white:** No priming required.
- **All tinted renders (except ETICS OrCa):** Prime reinforcement with tinted Putzgrund 610
- **Weathered reinforcement layers** (e.g. after winter break): Prime with Putzgrund 610.

All other substrates: See Technical Information "Untergründe und deren Vorbehandlung" / "Substrates and their Pretreatment"

Consumption

Capatect ThermoSan Fassadenputz NQG			
Product	Texture	Grain size [mm]	Consumption [kg/m ²] *
R20	grooved render	2.0	1.9 - 2.1
R30	grooved render	3.0	2.6 - 2.8
K15	scraped render	1.5	1.7 - 1.9
K20	scraped render	2.0	2.2 - 2.4
K30	scraped render	3.0	2.9 - 3.1

The exact rate of consumption is best established by trials.

*) without spilling or loss on site; the substrate may affect consumption. Specified data are average values. They may vary slightly from batch to batch due to the use of natural raw materials.

Application Conditions

Processing temperature: + 5 °C to approx. 30 °C for material, substrate, water and ambient air during application and curing.

Do not apply in direct sunlight, during strong wind, fog, high relative humidity, and imminent rain or frost.

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Drying/Drying Time	At 20 °C and 65% RH: surface-dry after approx. 24 hours. Cured, recoatable and ready for stress after 2 to 3 days. The render cures physically by evaporation of water. Drying time is extended by low temperature and high RH. Cover the scaffoldings with tarpaulins to protect the surface from rain during the drying phase.
Tool Cleaning	Immediately after use with water.
Material Preparation	Stir ThermoSan Fassadenputz NQG thoroughly with a low-speed stainless steel agitator. If necessary adjust to working consistency with tap (potable) water (max. 1 % if manually applied and max. 2 % for spray application).
Note	Do not apply ThermoSan Fassadenputz NQG (façade render) on horizontal surfaces exposed to rain or moisture

Advice

Special Risks (Hazard Note) / Safety Advice (Status as at Date of Publication)	Harmful to aquatic organisms, may cause longterm adverse effects in the aquatic environment. Keep out of the reach of children. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Protect skin and eyes against splashes. After contact with skin, wash immediately with plenty of water and soap. Do not empty into drains, water courses or onto the ground. If swallowed, seek medical advice immediately to avoid harm to the intestinal bacteria. Do not breathe spray dust. Contains 1,2-benzisothiazol-3(2H)-one, 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction. According to European Regulation 528/2012 this product is defined as a "treated article" (not a biocidal product) and contains the following biocidal substances: Carbendazim (CAS-No. 10605-21-7), Isoproturon (CAS-No. 34123-59-6), Terbutryn (CAS-No. 886-50-0), 2-Octyl-2H-isothiazol-3-on (CAS-No. 26530-20-1).
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. In Germany: Only completely emptied containers should be given for recycling. Dispose containers with residues of liquid material as remnants of water-based paints and dried material as hardened paints waste or via domestic waste.
Risk and Transportation Markings	See Material Safety Data Sheets (MSDS). See also: Technical Information Nr. 659 <i>Putzgrund 610</i>
Giscode	BSW50
Product Code Paints and Enamels	M-SF01 F (outdated)
Other Notes	ThermoSan-Fasadenputz NQG contains micro-biocides to prevent fungus and algae on the facade. This depot provides a long lasting, but not a temporary unlimited protection. The duration of the effect depends on project conditions (eg intensity of infestation, exposure to moisture, weather proofing). Assessments and Approvals Z-33.41-130 Z-33.42-131 Z-33.43-132 Z-33.47-859 Z-33.84-1185 ETA-09/368
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All suggestions and application instructions herein are based on our latest technical experience. Due to the wide variety of individual project conditions, we cannot be held responsible for their content. These instructions do not release the purchaser/ applicator from his responsibility to determine the suitability of the product in consideration of the project characteristics. These instructions are to be considered void when a new edition is released. Our general conditions of sale and delivery in their latest edition apply. This document is a translation of our German Technical Information No.628 · Capatect ThermoSan Fassadenputz NQG · Issued: September 2020