



CP 100+ / CP 100+ Additive teknisk produktblad

Concrete Protect 100+ and CP 100+ Additive

Nanoprotect-CP 100+

is a new construction material based upon the innovative Nanoprotect-Silicate Technology. Nanoprotect-CP 100+ hardens mineral surfaces and protects the surface, achieving a very high resistance against chemical attacks and any abrasive influences. The treated surfaces become waterproof, but at the same time remain breathable. Nanoprotect-CP 100+ penetrates into the surface 2 – 3 mm, reacts with the cement components and forms a hard silicate structure. Nanoprotect-CP 100+ is odour-free, solvent-free and easy to apply. The fully-dried coating is durable (10 – 15 years) and can not be removed. For indoor and outdoor use.

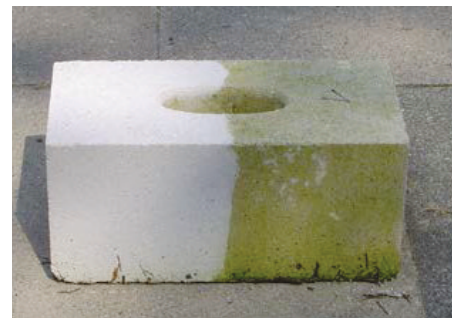
It is suitable for all types of absorbent mineralic surfaces as concrete, cement, paving-stone, screed and cement based construction materials. Best properties on cementous products with high calcium content.

Properties:

- One-Component aqueous solution
- Diffusion open water sealing
- Prevents blooming, weathering as well as infestation of algae
- Damaging agents do not find their way into concrete
- Optically neutral
- Non-yellowing
- Hydrophobic repellent effect
- Protection against frost damage, snow and ice attachment (resistant against common de-icing products)
- Extremely resistant against abrasion
- Temperature resistant from -30°C to 700°C
- Increases pressure and flexural strength of cementitious construction material
- Environmentally friendly, inorganic composition
- Optimal penetration because of low viscosity

Practical use:

- The sealing of old and new concrete floors against the invasion of aggressive fluids as salt water, sewage water, acid sulfur etc.
- Protection of concrete walls in tunnel construction
- Protection against surface peeling caused by alternating freezing and unfreezing
- Suitable for parking spaces, access roads, roof terraces, flat roofs etc.
- Protection of concrete floors in vivariums against infiltration of bacteria, mould and funguses
- Crack bridging against water diffusion
- Solidification of porous undergrounds
- Base coat for paint coats as protection against peeling of paint
- Sealing of concrete joints in sanitary and industrial areas
- Repair and protection of drinking-water pipes and cisterns
- Sealing of outer walls of cellar rooms and walls
- For all areas with high chemical or mechanical influence



Application:

Application temperature is between +5°C and 50°C. A maximum of 85% humidity should not be exceeded. The surface to be treated must be dry, clean and free from oils and grease. Any dust or the remains of plaster or cement must be thoroughly removed. Apply in two steps, with an interval of 10 to 15 minutes until the saturation point is reached. Avoid the formation of ponding. Application may be done using brush, roller or by spraying.

Protect the treated surface against condensation, rain or any water influence for 24 hours after treatment. Do not step on the treated surface or treat it in any other way during this time. The drying period can be shortened by ventilation.

Adjacent mineral surfaces as glass or tiling should be protected against splashes. Avoid the contact with aluminium. Wash off any splashes immediately with water. Application tools can be cleaned using water.

Nanoprotect-CP 100+ should be used undiluted. The exact details of use are variable and depend on the surface to be treated. We are pleased to give personal information in this regard.

Consumption:

The consumption of this product is highly dependent upon the absorbency and structure of the surface to be coated. Typical consumption 100gr.-350 gr./m².

CP 100+ Additiv

Based on the silicate technology of Nanoprotect CP100+ we offer the product version Nanoprotect CP100+ Additiv. The additive compound is suitable for mass hydrophobisation of cementary building material. Due to the mass hydrophobisation the complete saturation of the building material with the substance is guaranteed and there is no need for a time-consuming subsequent treatment of the products. The product is added to the mixing water. The amount used is between 0.2% - 0.4% of the total weight (water + solids). Depending on the formulation/concrete the required quantity of product can vary. Appropriate test should be carried out with the individual formulations at site.

During the drying time (in the time when the surface hydrophobication is not completely reached) the treated building material can be subsequently treated. We would be pleased to inform you in detail.

Independent laboratory test have demonstrated that, in individual cases the compressive strength of the building material treated with Nanoprotect-CP100+ could be increased up to 10%.

Product Definition / Transport Definition (german regulations):

Not classified as dangerous goods. Conformity with German regulations and Laws RID, ADR, ADNR, IMDG, IATA-DGR.

Physical health:

Free of free nanoparticles.

Availability:

Different packing forms/sizes are possible after prior consultation with us and according to the transport possibilities/regulations.

Storage:

The product may be stored for at least 24 months in its original packing. Protect from frost.

Disposal (german regulations):

Empty packing may be disposed of in the domestic waste. Remaining product must be disposed of according to the local laws and regulations or it must be taken to the community collection point for such materials.

Safety/Protection Measures:

When using this product please take note of the instructions on the bottle/canister. We wish to make it clear that the use of chemical preparations should only take place when the safety measures are observed and are always out of the reach of children. The technical information given here is according to the latest technical knowledge and composed from our own experience. In view of the many uses possible with this product it is therefore the responsibility of the user to act according to the given situation in respect of safety - that is to say the user acts upon their own responsibility in any given situation when using this product. That the use of this product takes place out of our jurisdiction, we have set out safety and protection measures, but we cannot be held responsible in any circumstances. For any misuse of the product we cannot be held responsible. In the event of a new version of this information becoming available – this information here set out is no longer valid.