

Technical data sheet

SINNODUR Concrete Basic

Innovative silicate based product for protection your concrete against chemicals and abrasion, hydrophilic, glossy primer

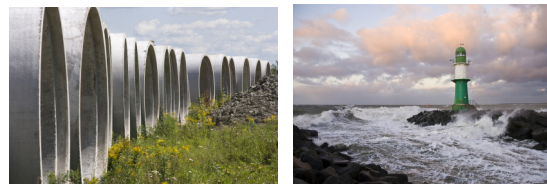
Product description and advantages

Sinnodur Concrete Basic is a one component liquid with solidifying effect of mineral based structures.

Sinnodur Concrete Basic reacts with the components of the cement substrate and forms a hard silicate structure, which puts a solidifying acid-resistant impregnation into the surface of the existing mortar matrix.

The material has the following outstanding properties and benefits:

- *Strengthens the substrate, closes pores and increases chemical resistance through silicate formation*
- *For waterproofing against all kind of liquids like saltwater, sewage water*
- *Protection and repair of drinking water reservoirs*
- *As crack-bridging protection against water diffusion*
- *Avoids efflorescence*
- *Strengthening of dusting concrete and screed and protects the surfaces from abrasion and aggressive chemicals*
- *Surface's optic almost unchanged*
- *Very good penetration due to nano-technology*
- *Water vapor permeable*
- *High temperature resistance*
- *Easy to apply, ready-to use*
- *Low viscosity, water-thin, odorless*
- *Fast drying process*
- *Environmentally friendly*



Range of application

Sinnodur Concrete Basic is used to reinforce porous, absorbent and sandy surfaces like concrete, screed and all mineral concrete substrates which are exposed to saltwater or chemicals. Apply in interior and exterior areas like manufacturing or agricultural areas. Because of hydrophilic character several layers could be applied till the desired protection level has reached.

Typical Usage:

- *Applied on exterior and internal cellar and all mineral building as replacement for conventional waterproofing*
- *Interior and exterior wall surfaces in cellars in old and new buildings*
- *Old and new concrete floors*
- *For areas with heavy mechanical and chemical load and areas exposed to seawater*
- *Durable protection of all substrates, such as concrete screed, pipelines and all cement based surfaces against acid and salt water*
- *Oil and water repellent effect on mineral surfaces*

Characteristic data

SINNODUR Concrete Basic

Basis	silicate
Solvent	water
Colour	transparent
Consistency	liquid
Application	brush, spray, etc.
pH value	11,5
Viscosity	<100mPa*s

Technical data

Number of layers	2 within 10 minutes
Drying process	12 h, enhanced by ventilation
Application	brush, roller, spray
Density	1,1 kg/dm ³
Consumption	0,15-0,4kg/m ²
Air- and ambient-temperatur	min. +5 °C, max. +35 °C
Application temperature	at least 3 °C above the existing dew point

Preparation of the substrate

Subsoil preparation of concrete or screed: Load-carrying, dry as well as free of dust, dredges, loose parts, oils, fats and other impurities. Chalking and strongly sanded components must be removed before the solidification (suck off with efficient industrial vacuum cleaner or grind off with grinding machine). Remove render and/ or coatings.

Mixing and application

Apply the material with brush, roller or spray up to saturation of the dry underground. Apply **Sinnodur Concrete Basic** undiluted for absorbent substrate. Do not use for not absorbing substrates like clinker brick (there we offer our Sinnodur Hydro). The treated areas have to be protected at least 24 hours from rain and condensation, during which the solidified surface may not be coated or treated. Apply as much layers till the desired optics (gloss) and protection quality has reached (e.g. Biogas reactors, acid resistance, 4 layers). For optimum protection apply the **Sinnodur Concrete Hydrophobic** as finishing layer for fassades and other vertical surfaces.

For floors and other horizontal surfaces use **Sinnofloor Coating** after complete drying of **Sinnofloor Concrete** (12-24 hours) as soil protection and crack repair.

Avoid excess material and puddles. Protect the surface after application for 24 hours from rain and umidity. Don't overcoat in this curing time.

Tools, cleaning

Brush, mop, rubber blade, roller or spraying tools.

For any interruption of work it is recommended to clean the working tools with water.

Delivery and pageage

Packaging:

Canister: 5 kg, 30kg

Container available on request

Shelf-life:

At least 1 year in closed container stored dry and free from moisture.

Safety, ecology and disposal

For **Sinnodur Concrete Basic** no hazard labeling is required. Further information concerning safety during transport, storage and handling as well as for disposal is found in the latest Safety Data Sheet. The current datasheets are available at www.sinnotec.eu. Also consider the instructions on the packaging.

Notes

Please protect glasses, glass, tiles, clinker and similar from splashing material! Aluminum may not come into contact with the material. Impurities have to be washed off immediately with water. With each interruption of work the tools have to be cleaned.

The correct and hence successful application of our products is not within our control. A guarantee can therefore only be given for the quality of our products. This data sheet supersedes all earlier technical data on this product. Information supplied by our employees and/or distributors going beyond the information contained in this

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data sheet must be confirmed in writing. We reserve the right to make changes representing technical progress.