



Technical data sheet

Sinnodur 2k flexible waterproofing

Flexible, crack-bridging, pressure water impermeable waterproofing

General appraisal certificate P-5268/688/07-BS, building rules list A, part 2, no. 1.9

Product Description and Advantages

Sinnodur 2k flexible waterproofing is a flexible, hydraulic setting waterproofing based on revolutionary new binder system technologies. It is used for crack-bridging waterproofing of buildings and surfaces in indoor and outdoor areas. After setting and drying, the product is highly chemical resistant up to a degree of "strong attack" according to DIN 4030 and it is resistant to manure corresponding to DIN 11622-2, section 4. For waterproofing work where strong chemical resistance, resistance to manure, salt water and similar is needed. It is also intended for use beneath ceramic tiles for wall and floor applications in wet-duty rooms, on balconies and terraces and in swimming pools. Especially suitable for waterproofing in areas with chemical stress such as large kitchens, food industry and salt loaded pools. **Sinnodur 2k flexible waterproofing** can be applied by brush and smoothing trowel. The mortar has the following outstanding properties and benefits:

- *Fast setting time, fast curing*
- *Walkable after 6 h*
- *Quick and easy to use*
- *Shrinkage free and crack-free curing*
- *Good bonding strength*
- *Waterproof even in case of pressure water*
- *Crack-bridging up to at least 1,3 mm*
- *Frost-, age- and UV resistant*
- *Can be covered with tiles and slabs*
- *Sea water resistance*
- *Impermeable to pressure water to max. 3 bar*
- *Environmentally friendly due to new binder system.*

Application range

Sinnodur 2k flexible waterproofing is suitable for the flexible waterproofing of internal and external structures such as:

- *Waterproofing of building elements, tanks, basins, cellars, tunnel and channel construction*
- *Waterproofing and coating of manure basins, drinking- and wastewater equipment*
- *Treatment facilities and sewers*
- *Bonded waterproofing against rising damp for cellar masonry work.*
- *Tanks with 30 meter water height*
- *Waterproofing for swimming pools or roofs.*

Technical data

Mixing ratio:	1 part powder : 1 part liquid component
Loading capacity at 20°C:	<ul style="list-style-type: none"> • After 6 hours the surface can be covered. • After 24 hour the surface can be mechanically loaded
Workability time:	90 minutes at 20°C
Working temperature:	+3 °C to +45 °C
Consistence:	for brushing/grouting
Consumption	>3kg/m ²
Crack-bridging:	> 1 mm with a layer thickness of 2 mm
Water impermeability:	water tight at 3.0 bar

Suitable substrates are:

- *Concrete and masonry surfaces with fine pored surfaces*
- *Cement-based substrate such as concrete, etc.*

Base surface preparation

All wall or floor substrates must be load-bearing and free of loose material. It can be either dry or matt-damp. Water repelling residue should be removed. All concrete and masonry work surfaces with fine-pored

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surfaces such as render surfaces in class P III and P II (in indoor areas) are suitable. Incompletely filled joints, holes and wide cracks should be closed and projecting edges broken off. Coarse pored substrates (e.g. aggregate particle-pored, light-weight concrete blocks) should be filled first.

The selection of the appropriate waterproofing is based on the water stress, the nature of soil and the building construction. These factors should be determined as early as possible, before applying the waterproofing.

Mixing and application

Sinnodur 2k flexible waterproofing is supplied in adjusted pre-packaged proportions of compounds (5kg dry mortar and 5kg liquid component together 10 kg). All dry mortar has to be mixed with the entire liquid component while constantly mixing for about 3 minutes until a uniform, lump-free and trowel-grade mortar is obtained. The mixture must not contain any residue of dry powder. Small quantities can be mixed using an electric drill with a speed of max. 800 rpm.

The waterproofing is carried out in at least 2 full-surface applications. The minimum total thickness at any point in the layer must be at least 1 mm. Pre wet the substrate with water but avoid puddles. The first coat of **Sinnodur 2k flexible waterproofing** must always be applied by brush. The fine mortar is applied intensively to provide saturation coverage and a closed surface. The second coat can be applied either by brush or by trowel. If it is applied by trowel, then it must be rubbed off afterwards with a brush. The application of the second coat should take place once there is no longer any risk of the first coat being damaged (at + 23 °C after 3 to 6 hours). In order to guarantee that the waterproofing layer dries without crack, the consumption should not exceed 2.8 kg/m² per coat.

Equipment cleaning

All equipment can be cleaned with water as long as the mortar is still fresh.

Packaging, storage stability

Net-weight: 10kg 2-comp.-bucket (5kg Powder + 5 kg liquid).

The original packaging is storable for 12 months in dry and temperate controlled areas (not below 0°C, recommended 10 - 35°C).

Health, safety, environment, disposal

Further information concerning safety during transport, storage and handling as well as for disposal is found in the latest Safety Data Sheet. Datasheets are available and can be downloaded from www.sinnotec.eu.

Application range

Do not use **Sinnodur 2k flexible waterproofing** below +3°C or above +45°C or on frozen substrates, in freezing weather, high thermal loads or wind. Mixed material should be used within the given pot-life (90 min. at 20°C). Mortar cannot be made workable again by adding water or other additives. Protect the fresh waterproofing layer for 6 hours from drying out too quickly in wind, and against sun, frost and rain. To achieve its complete waterproofing effect, the waterproofing material must be able to set and dry thoroughly.

Observe the safety precautions for protection of health and prevention of accidents given in the safety data sheet and on the label of the packaging.

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