

SCHÖNOX® 2K DS RAPID

Rapid setting flexible 2-component cementitious membrane

for interior and exterior areas. With the addition of 12.5 kg of powder (dust reduced) to 5.0 kg dispersion, SCHÖNOX 2K DS RAPID is ready to use. SCHÖNOX 2K DS RAPID is waterproof and crackbridging. Officially approved test certificate. SCHÖNOX 2K DS RAPID is a component of SCHÖNOX BALTERRA®-system. SCHÖNOX 2K DS RAPID is based on a self crosslinking, special acrylate-dispersion.

Product characteristics

- officially approved - no.:
 - P-5176/612/10-MPA BS
 - P-5086/767/11-MPA BS
 - P-5087/768/11-MPA BS
 - P-5087/768/11-MPA BS
 - P-5089/770/11-MPA BS
- fulfills CM O2 P requirements according to EN 14891
- self cross-linking, hydraulic rapid hardening
- watertight
- dust reduced
- solvent-free
- highly flexible
- crackbridging
- suitable for application on subfloor heating systems
- frost resistant
- shrinkage-optimized
- consumption-optimized
- diffusion permeable
- high bonding strength
- resistant against ageing
- easy to apply
- sprayable
- component of the SCHÖNOX BALTERRA®-system
- low in chromate according to REACH

Applications

SCHÖNOX 2K DS RAPID is especially suitable before the sealing:

- on balconies and terraces
- in highly loaded commercial wet rooms, such as shower rooms in sport halls, therapy rooms in hospitals and the like
- also by the subsequent thickbed method with sprayed-on daub
- in swimming pools and water basins in combination with ceramic coverings
- SCHÖNOX 2K DS RAPID meets the requirements of the moisture loading classes A0 and B0 for membranes in the leaflet „Hinweise für die Aus-

führung von Abdichtungen im Verbund mit Bekleidungen und Belägen aus Fliesen und Platten für den Innen- und Außenbereich“ and the leaflet „Keramische Beläge im Schwimmbadbau - Hinweise für Planung und Ausführung“.

- SCHÖNOX 2K DS RAPID is authorized by the German building supervision for the preparation of bonded sealings in highly loaded wet areas in the moisture loading classes A and B according to building regulation A, Part 2, Figure 2.50.
- The impermeability to water when installed has been tested together with the SCHÖNOX ST system components in accordance with test principles for mineral-based waterproofing slurries (MDS) as well as for waterproof membranes combined with tiled finishes (AIV) up to a 1,5 bar and is acceptable for an installation depth up to 6.0 m.

Substrates

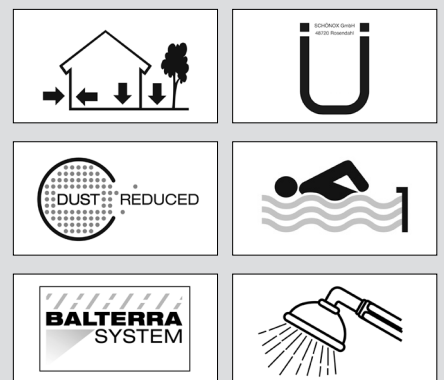
SCHÖNOX 2K DS RAPID is suitable for sealing on:

- concrete
- masonry (fully grouted)
- cement and rapid cement screeds
- calcium sulphate based screeds
- old substrates such as ceramic tiles, natural stones and terrazzo
- cement plaster, lime-cement plaster (CS II, CS III of CS IV according to EN 998-1, compression strength $\geq 2,5 \text{ N/mm}^2$)
- gypsum plaster according to EN 13279-1, compression strength $\geq 2,5 \text{ N/mm}^2$; residual moisture $\leq 1,0 \text{ CM-\%}$)
- composite elements of polystyrene coated with mortar
- pre-cast hollow wall panels of lightweight concrete
- pre-cast aerated concrete wall slabs
- gypsum board

Technical data

- Color: Powder component grey, dispersion white
- Pot life: approx. 50 minutes at +20 °C
- Application temperature: not below +5 °C
- Temperature resistance: - 20 °C up to + 60 °C
- Drying time between 1. and 2. coat. approx. 1,5 hours on walls
- drying time between 1. and 2. coat. approx. 3,0 hours on floors
- Ready for covering:
 - after approx. 1,5 hours on walls (after 2. layer)
 - after approx. 3,0 hours on floors (after 2. layer)

for interior and exterior areas. Please note that the stated drying times and times for further processing are influenced by ambient conditions like temperature, relative humidity, solar radiation, wind regime, different substrates and so on.



Requirements of substrate

- Adequate strength, load bearing capacity, dimensional stability and permanent dryness.
- Free of residues which reduce adhesion, e.g. dust, dirt, oil, fat and loose particles.
- Surface treatments or any "friable" areas of the subfloor must be mechanically removed and the subfloor repaired with SCHÖNOX levelling compounds as required.
- Old, ceramic coverings and natural stones should be firmly laid, thoroughly cleaned and eventually abraded.
- Layers of water-soluble adhesives, e.g. sulphite-waste-adhesives, are to be mechanically removed.
- Old water-resistant adhesives are to be mechanically removed as thoroughly as possible.
- Smooth rock pockets in concrete and coarsely porous concrete substrates using SCHÖNOX PL.
- Substrate should fulfill the requirements of DIN 18 202, tolerances in building constructions.
- With subsequent installation of ceramic coverings, cement screeds are required to be at least 28 days old, match strength class F4 and to display a residual moisture reading of ≤ 4.0 CM-% (heating screeds ≤ 2.0 CM-%), calcium sulphate screeds should have a reading of ≤ 0.5 CM-% (heating screeds ≤ 0.3 CM-%).
- Prepare calcium sulfate screeds following the BEB lealet „Hinweise zur Beurteilung und Vorbereitung der Oberfläche von Anhydritestrichen“.

Priming

- **normal absorbent substrates:**
priming not required
Cement screeds and concrete can be pre-wetted so that is matt-damp.
- **highly absorbent substrates:**
prime with SCHÖNOX KH (1:3) or SCHÖNOX KH FIX .
- **calcium sulphate substrates such as:**
- gypsum plaster
- gypsum fibreboards
- calcium sulphate screeds

prime with SCHÖNOX KH (1:1) (drying time at least 24 hours) or SCHÖNOX KH FIX (drying time at least 1 hour).

- **non-absorbent, smooth, sound substrates such as:**
- ceramic coverings, stable, thoroughly cleaned and if necessary abraded
priming not required

Material consumption

Moisture loading class A0, B0 and A, B:
approx. 2,75 kg/m² powder + approx. 1,10 kg/m² dispersion for two layer application.

- **Layer thickness:**
Moisture loading class A0, B0 and A, B:
Wet layer thickness minimum 1,1 mm for each application, dry layer-thickness of the whole coating minimum 2,0 mm.
- During the application of SCHÖNOX 2K DS RAPID the wet film thickness could be controlled with the SCHÖNOX NASSSCHICHTDICKENMESSER.
- Alternatively the layer thickness could be controlled and calculated during the application in dependence of the material consumption (kg per m²).

Mixing ratio

- 12,5 kg SCHÖNOX SCHÖNOX 2K DS RAPID powdercomponent
- 5,0 kg SCHÖNOX SCHÖNOX 2K DS RAPID dispersioncomponent

Recommended method of working

- Place the dispersion component of SCHÖNOX 2K DS RAPID in a clean bucket. The powder component is slowly stirred and mixed into a homogeneous lump-free mass (mixer with 600 rpm). The mixing time is ca. 3 minutes.
- Do not add water.
- After a short time (approx. 5 minutes) the optimal application properties are developed.
- A re-mixing of the material is not necessary.
- To guarantee a save sealing SCHÖNOX 2K DS RAPID has to be applied in min. two work steps. The needed dry layer

thickness must be observed. Apply the first layer with steel a float or a brush. Second layer should be applied with a steel float.

- Avoid layer thickness over 2 mm/m² per layer.
- Protect curing SCHÖNOX 2K DS RAPID layers from high ambient temperatures, direct sunlight and draughts.
- Movement joints as well as floor- and wall connection joints should be bridged with SCHÖNOX ST SEALING TAPE, SCHÖNOX ST INTERIOR ANGLE and SCHÖNOX ST EXTERIOR ANGLE.
- Floor drains and pipe penetrations should be furnished with SCHÖNOX ST FC SEALING SLEEVE FLOOR and SCHÖNOX ST D STRETCHABLE SEALING SLEEVE WALL.
- The SCHÖNOX ST SEALING TAPE and the SCHÖNOX ST-COMPONENTS are used for the realization of details before applying the membrane to the entire surface area.
- Install SCHÖNOX ST SEALING TAPE and SCHÖNOX ST-COMPONENTS at abutting edges with at least 5 cm overlapping.
- After execution of all details, applying the bonded sealing to the whole surface can start.
- Sealing tapes, sealing sleeves and sealing angles can be fully worked over with the second layer of the bonded sealing.
- In areas with moveable zones, e.g. loop installing or over movement- and building joints, spare the bonded sealing in the same width.
- To guarantee the function of the membrane, this procedure must be carried out carefully.
- For more information see product data sheet 7.65, SCHÖNOX ST SEALING TAPE.
- Immediately after use clean tools with water.
- On the completely dried membrane tiles can be bonded directly.
- Repair of subsequently damaged areas: Reconstruct using the same layer thickness, overlapping the undamaged area by at least 5 cm. Required drying times must be observed prior to laying new tiles.

SCHÖNOX® 2K DS RAPID

Packaging

- 12,5 kg paper sack (powder component)
- 5,0 kg plastic pail (dispersion component)

Storage

Powder component:

- Store SCHÖNOX 2K DS RAPID powder component in cool, dry conditions.
- Storage life of 1 year (in closed packaging).

Dispersion component:

- Store SCHÖNOX 2K DS RAPID dispersion component in cool, dry, frost-free conditions.
- Storage life of 1 year (in closed packaging).
- Opened bags should be closed immediately and used up as soon as possible.

Disposal

- Empty packaging completely and dispose of in accordance with regulations
- For the disposal of product residues, waste water and containers with adherent product residues please follow the local governmental regulations.

GISCODE

Powder component:

- ZP1 - cement products, low in chromate

Dispersion component:

- D1 - solvent-free dispersion adhesives and primers

Instructions

- All values are approximate and are subject to local climatic fluctuations.
- SCHÖNOX 2K DS RAPID contains cement. Alkaline reaction when it comes in contact with moisture, therefore protect skin, eyes and respiratory system. Do not breathe in dust. In case of contact rinse immediately with plenty of water. In case of contact with eyes seek additional medical advice.
- Wipe impurities immediately from the covering surface and remove residual skin using a suitable cleaning agent (e.g. SCHÖNOX FIX CLEAN).

- For working in exterior areas basically the atmospheric conditions must be stronger considered. Protect the work against imminent rainfalls with a suitable roofing.
- During the curing process the sealing may not be loaded with water.
- High temperatures accelerate, low temperatures decelerate the working and curing process.
- Direct contact with metals such as copper, zinc and aluminum is to be prevented by a pore sealing primer (SCHÖNOX GEA, 2 coats).
- Penetrations should be treated with thin bed flanges in a minimum circumferential width of 5 cm and made from a material suitable for bonding. Untreated metal surfaces, e.g. Stainless steel, gunmetal and PVC surfaces are to be primed with SCHÖNOX GEA and sand in the fresh state. If necessary obtain special information about flange systems.
- For sealing application in brine baths please ask for further information.

The applicable recommendations, guidelines, DIN regulations and safety data sheets are to be observed, together with the recognised architectural and engineering regulations. We guarantee that our products leave the factory in perfect condition. While our recommendations for use are based on tests and practical experience, they can only provide general guidance without any assurance as to product characteristics, since we have no influence over the conditions on site, the execution of the work or the method of processing. This product data sheet supersedes all previous editions.



The Sika management system is certified to ISO 9001 and 14001 by SQS

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