

SCHÖNOX PL

Product data sheet **3.03**

Universal repairing mortar

sturdy, resin-modified cement based levelling mortar and plaster. For filling holes and slots on walls and floors. Applicable in thicker layers as repairing-, smoothing and levelling compound. High physical properties. Low stress. For layer thickness from 1-10 mm without bulking material. Extendable for layer thickness up to 30 mm. For internal and external use.

Product characteristics

- EMICODE EC 1^{PLUS} R: very low emission, regulated
- very sturdy
- waterproof
- hydraulic setting
- rapid setting and hardening
- high level of hardness and strength
- suitable for application on subfloor heating systems
- synthetic resin-modified
- low tension/stress
- extendable without loss of strength for higher layerthickness
- suitable for castor wheels loading with layer-thickness more than 2,0 mm according to EN 12 529
- low in chromate according to REACH

Applications

SCHÖNOX PL is suitable for patching, filling, repairing and levelling:

- of subfloors under self levelling SCHÖNOX floor levelling compounds
- under textile, elastic and ceramic coverings
- of staircase steps and platforms
- as a repairing mortar for filling holes and deepenings
- for forming sloping screeds

SCHÖNOX PL is used in particularly for full-surface levelling:

- on balconies and terraces
- in wet areas
- in swimming pools

In outdoor and wet areas is SCHÖNOX PL be protected by a SCHÖNOX waterproofing membrane and tiles.

Substrates

SCHÖNOX PL is suitable for levelling, smoothing and repairing of:

- concrete (at least 3 months old)
- aerated concrete

- cement plaster, lime-cement plaster (CS II, CS III of CS IV according to EN 998-1, compression strength $\geq 2,5 \text{ N/mm}^2$)
- masonry
- cement and rapid cement screeds
- calcium sulphate based screeds
- old ceramic coverings
- old substrates with old water-resistant adhesive residues

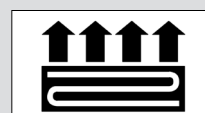
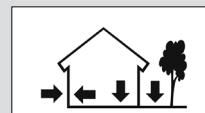
Requirements of substrate

- 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.
- With subsequent installation of ceramic coverings, cement screeds are required to be at least 28 days old, match strength class F4 and display a residual moisture reading of $\leq 2.0 \text{ CM-\%}$.
- Calcium sulfate screeds should have a reading of $\leq 0.5 \text{ CM-\%}$ (heating screeds $\leq 0.3 \text{ CM-\%}$).
- Old, ceramic coverings and natural stones should be firmly laid, thoroughly cleaned and eventually abraded.
- Old water-resistant adhesives are to be mechanically removed as thoroughly as possible.
- Layers of water-soluble adhesives, e.g. sulphite-waste-adhesives, are to be mechanically removed. Remaining adhesive residues should be primed with SCHÖNOX GEA.
- Old brickwork and plaster should be solid and air-dried.
- Rooms in buildings without a basement, are to be sealed against rising dampness in compliance with the standard.

Technical data

- Pot life: approx. 15 minutes at +20 °C
- Ready for foot traffic: after approx. 45 minutes
- Ready for covering:
 - up to 30 mm after approx. 2 hours for ceramic coverings
 - up to 10 mm after approx. 24 hours for natural and artificial stone, textile and vinyl coverings
- Application temperature: not below +5 °C
- Material consumption: approx. 1,6 kg/m²/mm as a bonding slurry approx. 0,7 g/m²
- Reaction to fire: A1 / A1_{fl}

All values are approximate and are subject to climatic fluctuations.



- The requirements of the relevant valid standards, guidelines and data sheets apply.

Priming

■ normal absorbent substrates such as:

- cement screeds
- rapid cement screeds
- concrete

prime with SCHÖNOX KH (1:3) or SCHÖNOX KH FIX.

■ wall substrates such as:

- smooth, sound concrete (formed)

Sprayed-on daub (MG P III) or a bonding layer with SCHÖNOX PFK RAPID applied with a 4 mm notched trowel. The bonding layer respectively the sprayed-on daub must be completely hardened before subsequent treatment. Before applying the sprayed-on daub, highly absorbent substrates can be damp wetted.

■ old water-resistant adhesive residues, almost completely removed

prime with SCHÖNOX SHP.

■ calcium sulphate substrates such as:

- 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).

We recommend a sanded sub-coat of SCHÖNOX GEA for layer-thickness exceeding 10 mm.

Instead of sanding, SCHÖNOX GEA can be primed with SCHÖNOX SHP.

■ Breakouts, holes, repair of plastering

Make of a bonding slurry with 1 part SCHÖNOX KH, 3 parts of water and appr. 5 parts SCHÖNOX PL (spreadable consistency). Before applying the sprayed-on daub, highly absorbent substrates can be damp wetted. Pay attention that the mortar is applied wet in wet into the bonding slurry. For thick layers work in first a thin layer into the bonding slurry.

Mixing ratio

- For 25,0 kg SCHÖNOX PL approx. 3,75 l water
- For 5,0 kg SCHÖNOX PL approx. 0,75 l water

Extended levelling compound:

The additive is added last.

Layer thickness of 10 to 30 mm:

- For 25,0 kg SCHÖNOX PL approx. 4,75 l water
 - For 5,0 kg SCHÖNOX PL approx. 1,0 l water
- Bulking material approx. 65 wt.% corresponds to 16,0 kg or 10 l of SCHÖNOX QUARZSAND 0,1 - 3,0 mm for 25,0 kg SCHÖNOX PL

Recommended method of working

- Using a clean receptacle, add SCHÖNOX PL to cold clean water to form a homogeneous mixture. Use of a mixer with 600 rpm is recommended.
- Do not mix more material than can be handled within 15 minutes.
- Apply SCHÖNOX PL in one layer, particularly for wall applications. If SCHÖNOX PL is multi-layered applied, layer thickness and strengths are not allowed to increase. The maximum layer thickness may not be exceeded in case of multi-layer application.
- Using SCHÖNOX PL for wall applications, particularly for smooth and sound substrates as well as for levelling in layer thickness > 20 mm we recommend a sprayed-on daub or a bonding layer with SCHÖNOX PFK RAPID. If in doubt, please obtain supplementary information.
- Preparation of sprayed-on daub: The cement mortar mixing ratio 1:1 up to 1:3 percent by volume with norm cement and dried, washed sand (0-4 mm grain size) must be spray-on shielding on the cleaned and maybe matte wetted substrate by using a trowel. Elastifier with SCHÖNOX KH prevent the early dehydration. Drying time approx. 24 hours. In case of high temperatures protect the sprayed-on daub against fast dehydration.
- For levelling works on concrete the levelling is done in accordance with the laid covering directly before the laying of the covering starts.
- Protect curing SCHÖNOX PL levelling layers from high ambient temperatures, direct sunlight and draughts.

- High temperatures accelerate, low temperatures slow down the setting.

- SCHÖNOX PL may only extended with aforementioned materials.

- Immediately after use clean tools with water.

Packaging

- 25.0 kg paper sack
- 5.0 kg paper sack (4 pieces per unit)

Storage

- Store SCHÖNOX PL in cool, dry conditions.
- Storage life of 6 months (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.

EMICODE

- EC 1^{PLUS} R: very low emission, regulated

GISCODE

- ZP1 - cement products, low in chromate

EPD - Self-declaration

SCHÖNOX GmbH declares as a statutory member of Deutsche Bauchemie and Industrieverband Klebstoffe that the product fulfills the criteria for modified mineral mortars of group 1.

ENVIRONMENTAL PRODUCT DECLARATION

acc. to ISO 14025 and EN 15804

Owner of declaration

Deutsche Bauchemie e.V.
Industrieverband Klebstoffe e.V.
Verband der deutschen Lack- und Druckfarbenindustrie e.V.

Editor

Institut für Bauen und Umwelt e.V. (IBU)

Program owner

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Number of declaration

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30.07.2013

Valid until

29.07.2018

Instructions

- All information applies to standard conditions and relates to the non-extended levelling compound.
- SCHÖNOX PL 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.
- Please follow the relevant product data sheets when using complementary products. If in doubt, we recommend obtaining further information from the manufacturer.
- The TKB-data sheet "Technische Beschreibung und Verarbeitung von zementären Bodenspachtelmassen" should be followed.

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 SCHÖNOX management system is certified to ISO 9001 and 14001 by SQS

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SCHÖNOX is a brand of the SIKA Group