



# SCHÖNOX® FPL PLUS

## Self levelling compound for use from 3 to 60 mm

SCHÖNOX FPL PLUS is a self-levelling screed in layer-thickness of 3 – 60 mm in interior and exterior areas. SCHÖNOX FPL PLUS is noted for very low shrinkage. Follow the addition of 4.4 l water to the 25 kg of powder, SCHÖNOX FPL PLUS is ready to use.

### Product characteristics

- EC 1R: very low emission
- protein free, complies with HTML
- self-levelling
- frost-resistant
- water-proofed against dispersion adhesives
- suitable on underfloor heating systems
- low stress
- pumpable
- extendable without loss of strength
- suitable on onderfloor heating systems
- suitable for castor wheel loading
- low of construction heights are possible
- high strength values
- layer-thickness of 3.0 to 40 mm without aggregates
- layer-thickness of 10 to 60 mm with aggregates
- low in chromate according to REACH

### Applications

**SCHÖNOX FPL PLUS is suitable for producing composition screeds in layer-thickness of 3 – 60 mm in:**

- new and old buildings
- renovation work
- modernisation work

**SCHÖNOX FPL PLUS is suitable for taking coverings such as:**

- textile coverings
- linoleum, vinyl and rubber coverings
- ceramic tiles (follow the recommend installation instructions)
- parquet, layer-thickness above 5 mm

### Substrates

**SCHÖNOX FPL PLUS is suitable on:**

- concrete
- cement screeds
- gypsum screeds
- new mastic asphalt screeds IC 10 and IC 15 according to DIN 18 354 and DIN 18 560, layer-thickness 3.0 to 5.0 mm.
- old mastic asphalt screeds IC 10 and IC 15 (if necessary, obtain advice on the hardness class test in an asphalt laboratory) according to DIN 18 354 and DIN 18 560 often contain cracks or are embrittled, depending on their composition, age, strength and wear and tear. This renovation substrate does not display sufficient load-bearing strength for taking even a low-stress,

cementitious levelling compound. For this purpose, we recommend using SCHÖNOX AP.

- magnesia screeds
- rapid screed cement systems
- old substrates such as ceramic tiles
- old, water-resistant adhesive residues

### Requirements of substrate

- Subfloors must be smooth, sound, clean, dry and free of any contaminants which may hinder adhesion.
- Surface treatments or any "friable" areas of the subfloor must be mechanically removed and the subfloor repaired with SCHÖNOX levelling compounds as required.
- Subfloor should have an effective damp proof membrane.
- With subsequent laying of floor coverings, where moisture readings are above 75%RH, as tested with a properly calibrated hygrometer or > 2.0 CM% then application of SCHÖNOX SDG or SCHÖNOX EG may be used to suppress residual moisture (see data sheet) Gypsum screeds should have a reading of < 0.5 CM% .
- Old ceramic tiles should be thoroughly cleaned and abraded.
- Old water-soluble adhesives, e.g. sulphite based adhesives, should be removed completely and prime residius with SCHÖNOX EG.
- Old water-resistant adhesives should be mechanically removed as far as possible.
- The requirements of the relevant valid standards, BS CP102, BS 5325, BS 8203, guidelines and data sheets apply.

### Priming

- **normal absorbent floor substrates such as:**

- cement screeds
  - rapid cement screeds
  - concrete
- prime with SCHÖNOX VD (1:3).

- **non-absorbent, smooth, sound substrates such as:**

- mastic asphalt screeds insufficiently, sanded
  - ceramic tiles
  - old adhesive residues, removed as far as possible
- prime with SCHÖNOX VD (neat) or SCHÖNOX SHP.

- **gypsum substrates such as:**

- gypsum screeds or sanded and vacuumed
  - gypsum based flowing screed
- protect with SCHÖNOX VD (1:1) against moisture (drying time at least 24 hours). We recommend a two-coat sub-coat of SCHÖNOX EG for layer thickness exceeding 10 mm.

# SCHÖNOX® FPL PLUS

- **magnesia screeds (not xylolite)**  
prime with SCHÖNOX SHP.
- **xylolite screeds**  
prime with SCHÖNOX EG.

## Technical data

- |                                 |  |
|---------------------------------|--|
| ● pot life                      | approx. 40 minutes by +18 °C                                   |
| ● ready for foot traffic        | after approx. 4 hours  |
| ● ready for covering            | - up to 10 mm layer-thickness after approx. 24 hours           |
| ● working/air temperature       | not below +5 °C  |
| ● material consumption/coverage | approx. 1.7 kg/m <sup>2</sup> mm<br>5.0 m <sup>2</sup> at 3 mm |
| ● compression strength          | 25 N/mm <sup>2</sup> after 28 days                             |
| ● EN 13 813                     | CT-C25-F6  |

All values are approximate, are subject to local climatic fluctuations and vary according to the absorbency of the substrate. Drying times based upon conditions of 20 °C with atmosphere of less than 65 % relative humidity.

## Mixing ratio

- approx. 4.5 l water for 25.0 kg SCHÖNOX FPL PLUS
- Extended levelling compound: the additive is added last.  
Layer-thickness 10 - 60 mm:  
Bulking material approx. 65 wt.%, corresponds to 16.0 kg clean silica sand (0 to 3 mm grain size) or clean 3 mm granite chippings.

## Recommended method of working

- Using a clean vessel, add SCHÖNOX FPL PLUS to cold, clean water to form a homogeneous mixture. Use of a mixer with 600 rpm is recommended. After letting it stand for approx. 3 minutes, mix again thoroughly. Then pour out the levelling compound and spread using a smoothing trowel or a pin leveler. In higher-thickness using of a spike roller is recommended.
- Requirements for pumping (flow rate and test) see the information sheet „SCHÖNOX pumping technology“.
- Edge, interior and movement joints must not be covered by SCHÖNOX FPL PLUS and be closed with suitable measures.
- An effective damp proof membrane should be present.
- Carry out preparatory work - such as filling joints, evening out hollows and unevenness – using the sturdy repair mortar SCHÖNOX RR.
- If a second layer of levelling compound is to be applied, either the first levelling compound layer should be primed with SCHÖNOX VD (1:1) when dry or worked „damp on damp“, i.e. the second layer is applied as soon as the first layer can be walked on.

- Protect curing SCHÖNOX FPL PLUS screed layers from high ambient temperatures, direct sunlight and draughts.
- Clean tools in water immediately after use.

## Packaging

- 25.0 kg paper bag

## Storage

- Store SCHÖNOX FPL PLUS in cool and dry conditions.
- Storage life 1 year.

## Disposal

- Empty bags of all trickles and dispose of in accordance with the regulations.

## EMICODE

- EC 1R: very low emission, regulated

## Instructions

- All information applies to standard conditions and relates to the non-extended levelling compound.
- SCHÖNOX FPL PLUS contains cement. Produces strong alkaline on reaction with water. Protect skin and eyes. 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 additives.
- If in doubt, we recommend obtaining further information from the manufacturer.



The SCHÖNOX management system  
is certified to ISO 9001 and 14001 by DQS.

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.