



SCHÖNOX® APF

Synthetic gypsum fibre-reinforced, self-levelling compound for use from 3 - 15 mm

especially suitable for wood floor boards, chip board (V100), mastic asphalt screeds and other critical substrates in combination with elastic and textile coverings for interior areas. Embedded fibres provide reinforcement, making it unnecessary to lay a reinforcing mat. Following the addition of 5.5l of water to the 25.0 kg of powder, SCHÖNOX APF is ready to use.

Product characteristics

- EC1: very low emission
- protein free, complies with HTML
- for interior use
- ready for foot traffic after approx. 3 hours
- low consumption
- for layer thicknesses of 3 to 15 mm
- high strength values
- high flexural strength
- suitable for underfloor heating systems
- self-levelling
- pumpable
- low stress
- highly synthetic resin-modified
- good working properties
- suitable for castor wheel load according to DIN EN 12 529
- low-pore, smooth surface
- chromate-free
- pH-value kind to skin
- crackbridging

Applications

SCHÖNOX APF is suitable for filling, smoothing and levelling of substrates:

- under textile, linoleum, vinyl and rubber coverings
- under parquet (exclusively with SCHÖNOX MS-ELASTIC) drying times must be adhered to in interior areas.

Substrates

SCHÖNOX APF is suitable on substrates as:

- timber floor boards
- chipboard V 100 according to DIN 68 771
- wooden-cement-boards
- old substrates such as ceramic tiles
- old, water-resistant adhesive residues
- concrete
- dry screeds
- cement screeds
- magnesia screeds
- rapid cement screed systems
- gypsum screeds
- mastic asphalt screeds IC 10 and IC 15 according to DIN 18 354 and DIN 18 560, layer thickness 3.0 to 8.0 mm.

Requirements of substrate

- Substrate must be smooth, sound, clean, dry and free of any contaminants which may hinder adhesion.

- Surface treatments or any "friable" areas of the substrate must be mechanically removed and the subfloor repaired with SCHÖNOX levelling compounds as required.
- Substrate 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 EG may be used to suppress residual moisture (see data sheet) Gypsum screeds should have a reading of < 0.5 CM%.
- Old water-soluble adhesives, e.g. sulphite based adhesives, should be removed completely. Prime remaining adhesive residues with SCHÖNOX EG.
- Old water-resistant adhesives should be mechanically removed as far as possible.
- Old floors such as ceramic tiles should be thoroughly cleaned and abraded.
- Suitable for levelling partial surfaces of bituminous substrates, such as asphalt and others; this is also suitable for producing thicker levelling layers in places.
- Timber floors must be stable, sound and requires a normal moisture content of wood. Let some space (joint approx. 1 mm) to the walls while levelling to ensure ventilation of the construction.
- Loose boards and planks must be firmly screwed down.
- Carry out preparatory work - such as filling joints between firmly laid wooden planks, evening out hollows and unevenness – using a sturdy repair mortar.
- The requirements of the relevant valid standards, BS CP102, BS 5325, BS 8203, guidelines and data sheets apply.

Priming

- **normal absorbent 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 water-resistant adhesive residues, removed as far as possible
 prime with SCHÖNOX VD (pure) or SCHÖNOX SHP

● gypsum substrates such as:

- dry screeds on gypsum base
- wooden-cement-boards
- gypsum screeds

protect against moisture with SCHÖNOX VD (1:1) (drying time can be omitted). We recommend a two-coat sub-coat of SCHÖNOX EG for layer thickness exceeding 10 mm.

● magnesia screeds (not xylolite)

prime with SCHÖNOX SHP.

● xylolite screeds

prime with SCHÖNOX EG.

● wood substrates such as

- stable laid wooden planks
- chipboard (V100)
- parquet

protect against moisture with SCHÖNOX VD (pure)

Technical data

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|--------------------------|--|
| ● pot life | approx. 30 minutes at +18 °C |
| ● ready for foot traffic | after approx. 3 hours |
| ● ready for covering | after approx. 24 hours up to 3 mm layer-thickness (by laying parquet after approx. 48 hours) |
| ● working temperature | not below +5 °C |
| ● material consumption | approx. 1.5 kg/m ² mm |
| ● coverage | 5.5 m ² at 3 mm |
| ● compression strength | 40 N/mm ² after 28 days |
| ● EN 13 813 | CA-C40-F10 |

All values are approximate, are subject to local climatic fluctuations. Drying time based upon conditions at 20 °C with atmosphere of less than 65 % relative humidity.

Mixing ratio

- for 25.0 kg SCHÖNOX APF approx. 5.5 l water

Recommended method of working

- **Adequate ventilation is essential when SCHÖNOX APF is being worked and during the drying time.**
- Using a clean vessel, add SCHÖNOX APF 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 filling compound and spread using a smoothing trowel. In higher layer-thicknesses using of a spike roller is recommended.
- Requirements for Pumping (flowrate and test) see the information sheet „SCHÖNOX Pumping technology“.
- If a second layer of levelling compound is to be applied, the first levelling compound layer should be primed with SCHÖNOX VD (1:1) when dry.
- Due to the high fibre content, we recommend that full containers are mixed to guarantee even distribution of the fibres.

- In the case of higher layer-thickness, contact with vertical structures should be avoided by putting in an edge strip.
- Protect curing SCHÖNOX APF levelling layers from high ambient temperatures, direct sunlight and draughts.
- Clean tools in water immediately after use.
- Avoid direct contact to metallic constructions (e.g. heating pipes), which can lead to corrosion.

Packaging

- 25.0 kg paper sack

Storage

- Store SCHÖNOX APF in cool, dry conditions.
- Storage life 12 months.

Disposal

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

EMICODE

- EC1: very low emission

GISCODE

- CP1 – levelling compounds based on calcium sulphate

Instructions

- All information applies to standard conditions and relates to the non-extended levelling compound.
- SCHÖNOX APF does not contain Portland cement. Thus, skin irritation does not occur due to the favourable pH value.
- Please follow the relevant product data sheets when using additives. If in doubt, we recommend that further information is obtained 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.