



SCHÖNOX® PS-RAPID

Rapid setting self-levelling compound for use from 1 to 20 mm

for almost all substrates suitable for laying as well as renovation work in interior areas. The high synthetic content greatly increases elasticity as well as water retention capacity compared to standard floor levelling compounds. Many types of covering can be laid after approximately 3 hours.

Product characteristics

- EC 1R: very low emission
- protein free, complies with HTML
- for interior use
- self-levelling
- ready for covering after approx. 3 hours for many types of coverings
- in many cases suitable without primer
- suitable for underfloor heating systems without additive
- high hardness and strength
- highly synthetic resin-modified
- layer-thickness of 1 to 10 mm without aggregates
- layer-thickness of 10 to 20 mm with aggregates
- pumpable
- extendable without loss of strength for higher layer-thickness
- suitable for castor wheels loadings more than 1.0 mm layer-thickness
- for forklift truck traffic, layer-thickness at least 3 mm
- low-pore surface
- reduced chromate according to TRGS 613

Applications

SCHÖNOX PS-RAPID is suitable for filling, smoothing, evening and levelling of substrates without priming:

- under ceramic, textile, linoleum, vinyl and rubber coverings
- for full-surface levelling under parquet, layer thickness at least 2 mm (drying time at least 24 hours)
- for full-surface levelling under sealing and coatings with forklift truck traffic, layer thickness at least 3 mm (drying time at least 24 hours)

in interior areas.

Substrates

SCHÖNOX PS-RAPID is suitable for filling, smoothing, evening and levelling of substrates without priming:

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

as well as for filling, smoothing, evening and levelling of substrates with priming:

- gypsum screeds
- magnesia screeds with mineral additives
- highly absorbent substrates

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 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.
- The requirements of the relevant valid standards, BS CP102, BS 5325, BS 8203, guidelines and data sheets apply.

Priming

- **gypsum substrates such as:**
 - gypsum screeds
 - prime with SCHÖNOX VD (1:1), drying time at least 24 hours. We recommend a two-coat sub-coat of SCHÖNOX EG for layer thicknesses exceeding 10 mm.
- **highly absorbent cement screeds, rapid cement screed systems, concrete**
 - prime with SCHÖNOX VD (1:3).
- **magnesia screeds (not xylolite)**
 - prime with SCHÖNOX SHP.
- **levelling under sealing and coatings**
 - prime with SCHÖNOX EG.

Technical data

- pot life
 - ready for foot traffic
 - ready for covering
- approx. 25 minutes at +20 °C
after approx. 1 hours
after approx. 3 hours up to 10 mm layer-thickness for textile, linoleum, vinyl and rubber coverings

SCHÖNOX® PS-RAPID

- working temperature not below +5 °C, not above +30 °C
- material consumption approx. 1.6 kg/m²mm
- coverage 5.2 m² at 3 mm
- compression strength 45 N/mm² after 28 days
- EN 13 813 CT-C45-F10

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

In case of a rapid laying on SCHÖNOX PS-RAPID take care of the recommended climate. Low temperature and high air humidity retard the early time for covering.

Coverings sensitive to damp, such as parquet, cork, synthetic rubber, linoleum, polyolefin and textile coverings with natural fibre backing are ready for covering after approx. 24 hours up to 10 mm layer-thickness.

Mixing ratio

- for 25.0 kg SCHÖNOX PS-RAPID approx. 5.5 l water
- Extended levelling compound: the additive is added last. Layer thickness 10 - 20 mm:
Bulking material approx. 65 wt.% corresponds to 16.0 kg clean silica sand of 0 - 3 mm grain size or clean 3 mm granite chippings.

Recommended method of working

- Using a clean vessel, add SCHÖNOX PS-RAPID 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. Even surfaces are easily achieved with a pin leveler. In higher thicknesses using of a spike roller is recommended.
- Requirements for Pumping (flowrate and test) see the information sheet „SCHÖNOX Pumping technology“.
- In the case of higher layer thickness, contact with vertical structures should be avoided by putting in an edge strip.
- Ensure adequate ventilation while the levelling compound is drying.
- Due to the high synthetic content, additional curing is not necessary. This applies especially e.g. to levelling under parquet and sealing/coating.
- Carry out preparatory work - such as filling joints, evening out hollows and unevenness – using the sturdy repair mortar SCHÖNOX RR.
- Protect curing SCHÖNOX PS-RAPID levelling layers from high ambient temperatures, direct sunlight and draughts.
- Clean tools in water immediately after use.

Packaging

- 25.0 kg paper sack

Storage

- Store SCHÖNOX PS-RAPID in cool, dry conditions.
- Storage life 6 months.

Disposal

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

EMICODE

- EC 1 R: very low emission, regulated

GISCODE

- ZP1 – cement products, low in chromates

Instructions

- All information applies to standard conditions and relates to the non-extended levelling compound.
- SCHÖNOX PS-RAPID 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 that further information is obtained from the manufacturer.



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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.