

SCHÖNOX ZM RAPID

Product data sheet **3.46**

Rapid setting, cement based self-levelling compound with very low emissions

for almost all substrates suitable for laying. For repairings and renovation work in interior areas. Many types of covering can be laid after approximately 90 minutes. The self levelling compound has a very low shrinkage and a good absorptivity. Extendable with sand.

Product characteristics

- EMICODE EC 1^{PLUS} R: very low emission, regulated
- RAL UZ 113: Environment-friendly, because very low-emission
- for interior use
- self-levelling
- ready for covering after approx. 1,5 - 2 hours for many types of coverings
- suitable for application on subfloor heating systems
- high level of hardness and strength
- layer-thickness 1,0 to 10 mm without aggregates
- layer-thickness 5 to 25 mm with aggregates
- pumpable
- extendable without loss of strength for higher layerthickness
- suitable for castor wheels loading with layer-thickness more than 1,0 mm according to EN 12 529
- for forklift truck traffic, layer-thickness at least 3 mm
- low porosity surface
- low in chromate according to REACH

Applications

SCHÖNOX ZM RAPID is suitable for filling, smoothing, evening and levelling of substrates:

- under textile, elastic and ceramic coverings
- for full-surface levelling under parquet, layer thickness at least 2 mm (drying time at least 12 hours)
- for full-surface levelling under coloured sealings and coatings with forklift truck traffic, layer thickness at least 3 mm (drying time at least 12 hours)
- in interior areas.

Substrates

SCHÖNOX ZM RAPID is suitable for filling, smoothing, evening and levelling of:

- concrete

- cement and rapid cement screeds
- old substrates such as ceramic tiles, natural stones and terrazzo
- old substrates with old water-resistant adhesive residues
- calcium sulphate based screeds
- magnesia screeds with mineral aggregates
- suitable particle board or OSB constructions, screwed
- mastic asphalt screeds (sanded) IC 10 and IC 15 according to EN 13 813, layer-thickness 1 to 3 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 EN 13 813, often contain cracks or are embrittled, depending on their composition, age, strength and use. This renovation substrate does not display sufficient load-bearing strength for taking even a low-stress, cementitious levelling compounds. For this purpose, we recommend using stress-free, gypsum SCHÖNOX-levelling compound. If in doubt, please obtain supplementary information.

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, loose and weak levelling layers should be removed mechanically.
- With subsequent installation of floor coverings, cement screeds are required to display a residual moisture reading of ≤ 2.0 CM-% (heating screeds ≤ 1.8 CM-%), calcium sulphate screeds

Technical data

- Pot life: approx. 20 - 30 minutes at 20 °C
- Ready for foot traffic: after approx. 1 - 1,5 hours
- Ready for covering:¹
 - up to 10 mm after approx. 1,5 - 2,0 hours for textile, vinyl coverings, LVT'S and linoleum
- Application temperature: 5 °C to 30 °C
- Material consumption: approx. 1,5 kg/m²/mm
- Reaction to fire: A1_{fl}-s1¹ with 20 °C and 65 % rel. humidity, temperature of substrate ≥ 15 °C

All values are approximate and are subject to climatic fluctuations.

Especially if fast laying on SCHÖNOX ZM RAPID is desired, take fully respect to the recommended climate conditions. Low temperatures and high relative humidity decelerate an early readiness for covering.

Readiness for covering for floorings sensitive to moisture, like parquet, cork and synthetic rubber is reached up to 10 mm layer thickness after appr. 12 hours.



should have a reading of ≤ 0.5 CM-% (heating screeds ≤ 0.3 CM-%).

- Layers of water-soluble adhesives, e.g. sulphite-waste-adhesives, are to be mechanically removed. Remaining adhesive residues should be primed with SCHÖNOX EG.
- Old water-resistant adhesives are to be mechanically removed as thoroughly as possible.
- Old floors, such as ceramic tiles are to be thoroughly cleaned and sanded.
- OSB is to be grinded intensively.
- Rooms in buildings without a basement, are to be sealed against rising dampness in compliance with the standard.
- The requirements of the relevant valid standards, guidelines and data sheets apply.

Priming

- **normal absorbent substrates such as:**
 - cement screeds
 - rapid cement screedsprime with SCHÖNOX VD (1:3) or SCHÖNOX VD FIX.
- **non-absorbent, smooth, sound substrates such as:**
 - old water-resistant adhesive residues, almost completely removed
 - ceramic tiles
 - mastic asphalt screeds, insufficient sandedprime with SCHÖNOX SHP or SCHÖNOX VD (neat).
- **calcium sulphate substrates such as:**
 - calcium sulphate screedsprime with SCHÖNOX VD FIX (drying time 60 minutes) or SCHÖNOX VD (1:1 / drying time at least 24 hours). We recommend a two-coat sub-coat of SCHÖNOX EG for layer-thickness exceeding 10 mm.
- **magnesia screeds (not xylolite):** prime with SCHÖNOX SHP.
- **for levelling under sealings and coatings:** prime with SCHÖNOX EG.
- **Wooden substrates like e.g.:**
 - Chipboard or OSB

protect against moisture with SCHÖNOX VD (neat)(drying time 2 hours).

Mixing ratio

- For 25,0 kg SCHÖNOX ZM RAPID approx. 5,75 - 6,0 l water

Extended levelling compound:

The additive is added last.

Layer thickness of 5 to 15 mm:

Bulking material approx. 50 wt.% corresponds to half a sack of SCHÖNOX QUARZSAND 0,2 - 0,8 mm for 25,0 kg SCHÖNOX ZM RAPID

Layer thickness of 10 to 25 mm:

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 ZM RAPID

Recommended method of working

- Using a clean receptacle, add SCHÖNOX ZM RAPID to cold clean water to form a homogeneous mixture. Use of a mixer with disc stirring rod is recommended. After a short maturing time, mix again thoroughly. Then pour out the levelling compound and spread using a smoothing trowel. Even surfaces are easily achieved with the SCHÖNOX SCHWEDENRAKEL. With the use of the SCHÖNOX SCHWEDENRAKEL it is possible to achieve an even surface without difficulties. It is usually not necessary to remove trowelling defects or to level more than once.
- In the case of higher layer-thickness, contact with vertical structures should be avoided by putting in an perimeter isolating strip.
- If a second layer of levelling compound is to be applied, the first levelling compound layer should be primed with SCHÖNOX VD (1:1) or SCHÖNOX VD FIX when dry. The maximum layer thickness may not be exceeded in case of two-layer application. The second layer may not exceed the layer thickness of the first.
- Smoothing of minor unevenness or levelling of transitions can be carried out after walkability using SCHÖNOX ZZ.

■ Ensure adequate ventilation while the levelling compound is drying.

- Due to the high synthetic content, additional curing is not necessary.
- Carry out preparatory work - such as filling joints, evening out hollows and unevenness - using the sturdy repair mortar SCHÖNOX RR.
- Protect curing SCHÖNOX ZM RAPID levelling layers from high ambient temperatures, direct sunlight and draughts.
- Contact to metal like water-bearing pipes must be avoided (e.g. sealing of pipe penetrations), because especially galvanised steel pipes have no sufficient corrosion protection.
- Immediately after use clean tools with water.

Packaging

- 25.0 kg paper sack

Storage

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

Disposal

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

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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 Druck-
farbenindustrie e.V.

Editor

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

Program owner

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Number of declaration

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Date of issue

30.07.2013

Valid until

29.07.2018

Instructions

- All information applies to standard conditions and relates to the non-extended levelling compound.
- SCHÖNOX ZM 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.
- Please follow the relevant product data sheets when using complementary products. If in doubt, we recommend obtaining further information from the manufacturer.

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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