

Very low emission, premium levelling compound for direct use

for all suitable substrates in exterior and interior areas. Especially suitable for levelling of industrial floors as well as garages and cellars. SCHÖNOX DSP is characterised by a low material shrinkage, very good flow properties and a homogeneous concrete gray appearance.

Product characteristics

- EMICODE EC 1^{PLUS} R: very low emission, regulated
- for interior and exterior use
- self-levelling
- highly loadable
- waterproof
- frost resistant
- synthetic resin-modified
- high strength values
- ready to load after 3 days
- layer-thickness 4,0 to 15 mm without aggregates
- layer-thickness 15 to 50 mm with aggregates
- pumpable
- low tension/stress
- for forklift truck traffic, layer-thickness at least 4 mm
- low porosity surface
- low in chromate according to REACH

Applications

SCHÖNOX DSP is suitable for filling, smoothing and levelling:

- under coatings, ceramic or other coverings, interior and exterior
- like concrete, interior
- to build a top layer in stock-, working and production areas, garages and basements

For heavy load by milling, strike, hit, fall, railway traffic systems and especially by dragging of objects or moving of bulk goods and as a protection against contaminations we recommend to apply a coloured surface coating adapted to the traffic load / use.

Substrates

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

- cementitious- and rapid cement screeds (at least C25 - F4)
- calcium sulphate based screeds

- concrete floors (at least C25/30)
- magnesia screeds with mineral aggregates
- old ceramic coverings

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.
- Big holes have to be smoothed with a suitable sturdy levelling compound or with SCHÖNOX DSP (drawn down with silica sand).
- Old floors, such as ceramic tiles are to be thoroughly cleaned and sanded.
- Old adhesive residues should be removed completely.
- 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 VD (1:3), SCHÖNOX KH (1:3), SCHÖNOX VD FIX or SCHÖNOX KH FIX.

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

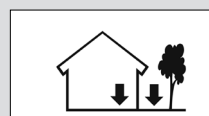
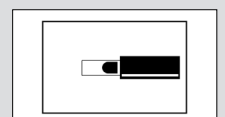
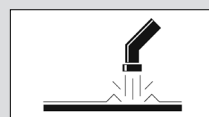
- ceramic tiles
- prime with SCHÖNOX SHP or exterior with SCHÖNOX HP RAPID, SCHÖNOX EPA or SCHÖNOX GEA.

■ **highly absorbent cement substrates as:**

Technical data

- Color: concrete gray
- Pot life: approx. 30 minutes at 20 °C
- Ready for foot traffic: after approx. 3 hours
- Ready for covering:
 - up to 5 mm after approx. 24 hours for all kinds of coverings
 - up to 5 mm after approx. 48 hours for coatings
- Application temperature: not below 10 °C floor temperature
- Material consumption: approx. 1,8 kg/m²/mm
- Reaction to fire: A1 / A1_{fl}

All values are approximate and are subject to climatic fluctuations.



- concrete, prepared by blasting or milling
prime with SCHÖNOX HP RAPID, SCHÖNOX EPA or SCHÖNOX GEA.

- **calcium sulphate substrates such as:**
- calcium sulphate screeds
prime with SCHÖNOX HP RAPID, SCHÖNOX EPA or SCHÖNOX GEA.
- **magnesia screeds (not xylolite):**
prime with SCHÖNOX HP RAPID, SCHÖNOX EPA or SCHÖNOX GEA.

To avoid air spaces and visual disturbances because of unequal absorbitivity of the surface, it is advisable to use SCHÖNOX HP RAPID, SCHÖNOX EPA or SCHÖNOX GEA as a primer on absorbent substrates.

Mixing ratio

- For 25,0 kg SCHÖNOX DSP
approx. 4,5 l water

Extended levelling compound:

The additive is added last.

Layer thickness of 15 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 DSP

Layer thickness of 25 to 50 mm:

Bulking material approx. 100 wt.% corresponds to 25,0 kg clean screed sand (grain size 0 - 8 mm) for 25 kg SCHÖNOX DSP

Recommended method of working

- Using a clean vessel, add SCHÖNOX DSP to cold clean water to form a homogeneous mixture. Use of a mixer with 600 rpm or a suitable pump is recommended. In case of interruption of work pump and hoses necessarily should be cleaned immediately.
- Spread SCHÖNOX DSP using a suitable tool (surface blade, trowel) and as needed ventilate using a spike roller.
- In the case of higher layer-thickness, contact with vertical structures should be avoided by putting in an perimeter isolating strip.

- Protect curing SCHÖNOX DSP 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 DSP in cool, dry conditions.
- Storage life of 6 months (in closed packaging).

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 fullfills 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 Druck-

farbenindustrie e.V.

Editor

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

Program owner

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

Number of declaration

EPD-DIV20130096-IBE1-DE

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 DSP 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.
- As dirt and moisture protection it is recommended to treat the dried levelling compound with a coloured, solvent free impregnation/coating based on reaction resin (e.g. Sika floor coating systems). The processing instructions of the producer should be followed. In case of doubt suitability should be checked on a test area.
- Please follow the relevant product data sheets when using complementary products. If in doubt, we recommend obtaining further information from the manufacturer.
- Visual even surfaces which are possible e.g. with coloured reaction resin coatings are not possible in every case with the cementitious SCHÖNOX DSP (also pigmented). Irregularities of Visual even surfaces which are possible e.g. with coloured reaction resin coatings are not possible in every case with the cementitious SCHÖNOX DSP (also pigmented). Irregularities of the surface stand for a typical, rustic, character like concrete.
- Hair cracks in the levelling layer are dependent of the substrate, installation

and environmental conditions are not impossible.

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

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