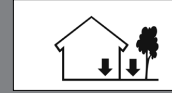
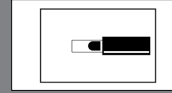




# SCHÖNOX® DSP

## 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<sup>PLUS</sup>: very low emission
- for interior and exterior use
- self-levelling
- highly loadable
- waterproof
- frost resistant
- synthetic resin-modified
- high strength values
- ideal in combination with Sika coatings
- 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.

- for full-surface levelling under sealings and coatings (Note the system design in combination with Sika coatings)

## 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 (drawed 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 KH FIX.

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

- ceramic tiles (thoroughly cleaned and abraded)

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

## 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/m<sup>2</sup>/mm
- Reaction to fire: A1 / A1<sub>f1</sub>

All values are approximate and are subject to climatic fluctuations.



# SCHÖNOX® DSP

## ■ highly absorbent cement substrates as:

- 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.

- Clean tools in water immediately after use.

## 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<sup>PLUS</sup>: very low emission

## GISCODE

- ZP1 - cement products, low in chromate

## EPD - Self-declaration

Sika Deutschland GmbH declares 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

FEICA - Association of the European Adhesive and Sealant Industry

## Editor

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

## Program owner

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

## Number of declaration

## EPD-FEI-20160017-IBG1-EN

### Date of issue

23.05.2016

### Valid until

22.05.2022

## 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.

# SCHÖNOX® DSP

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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# PRODUCT DATA SHEET

## Sikafloor®-304 W

2-PART PUR MATT SEAL COAT PART OF THE SIKA COMFORTFLOOR® FLOORING RANGE



### DESCRIPTION

Sikafloor®-304 W is a two part water based, very low VOC, polyurethane, matt seal coat. Suitable for use in hot and tropical climatic conditions.

### USES

Sikafloor®-304 W may only be used by experienced professionals.  
Matt seal coat for Sika ComfortFloor® flooring range

### CHARACTERISTICS / ADVANTAGES

- Water based
- Very low odour
- Good UV and yellowing resistance
- Easy to clean

### SUSTAINABILITY

- Conformity with LEED v2009 IEQc 4.2: Low-Emitting Materials - Paints and Coatings
- VOC Emission certificate according to AgBB und DiBt approval requirements (AgBB – Committee for Health-related Evaluation of Building Products, DiBt – German Institute for Building Technology), Eurofins report No. 770027B

### APPROVALS / CERTIFICATES

- Synthetic resin screed material according to EN 13813:2002, Declaration of Performance 02 08 01 04 005 0 000002 1041, certified by notified factory production control certification body 0620, and provided with the CE marking.
- Coating for surface protection of concrete according to EN 1504-2:2004, Declaration of Performance 02 08 01 04 005 0 000002 1041, certified by notified factory production control certification body 0620, and provided with the CE marking.
- Fire classification acc. to EN 13501-1 Report No. KB-Hoch-090971, Test institute Hoch, Germany.
- Biological resistance certificate Sikafloor-304W CSM Statement of Qualification - ISO 846, very good - Report No. SI 1108-533 Fraunhofer IPA, Germany

### PRODUCT INFORMATION

<b>Composition</b>	PUR	
<b>Packaging</b>	Part A	6.0 kg containers
	Part B	1.5 kg containers
	Part A+B	7.5 kg ready to mix units
<b>Appearance / Colour</b>	Resin - part A	white, liquid
	Hardener - part B	yellowish, liquid
Sikafloor®-304W is matt after final curing.		

<b>Shelf life</b>	Part A:	6 months from date of production
	Part B:	12 months from date of production

**Storage conditions** The product must be stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5 °C and +30 °C.

<b>Density</b>	Part A	~ 1.05 kg/l	(DIN EN ISO 2811-1)
	Part B	~ 1.13 kg/l	
	Mixed resin	~ 1.07 kg/l (diluted with 5 % Water)	
All Density values at +23°C			

## TECHNICAL INFORMATION

**Chemical Resistance** Resistant to many chemicals. Contact Sika technical service for specific information.

<b>Gloss Level</b>	<b>Angle</b>	<b>Value</b>	(ISO 2813)
	85°	< 55	
	60°	< 10	

## APPLICATION INFORMATION

**Mixing Ratio** Part A : part B = 80 : 20 (by weight)

**Consumption** ~0.13 kg/m<sup>2</sup>/layer  
These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc.

**Ambient Air Temperature** +10 °C min. / +30 °C max.

**Relative Air Humidity** 75 % max.  
During curing the humidity should not exceed 75 % max. Adequate fresh air ventilation must be provided to remove the excess moisture from the curing product.

**Dew Point** Beware of condensation!  
The substrate and uncured floor must be at least 3 °C above dew point to reduce the risk of condensation or blooming on the floor finish.

**Substrate Temperature** +10 °C min. / +30 °C max.

<b>Pot Life</b>	<b>Temperature</b>	<b>Time</b>
	+10 °C	~ 50 minutes
	+20 °C	~ 30 minutes
	+30 °C	~ 20 minutes

Caution: End of potlife is not noticeable.

**Curing Time** Before overcoating Sikafloor®-304 W allow:

<b>Substrate temperature</b>	<b>Minimum</b>	<b>Maximum</b>
+10 °C	26 hours	4 days
+20 °C	16 hours	3 days
+30 °C	12 hours	2 days

Based on relative humidity of max. 70 % and good ventilation. Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

<b>Applied Product Ready for Use</b>	<b>Temperature</b>	<b>Foot traffic</b>	<b>Light traffic</b>	<b>Full cure</b>
	+10 °C	~ 30 hours	~ 48 hours	~ 6 days
	+20 °C	~ 16 hours	~ 24 hours	~ 4 days
	+30 °C	~ 12 hours	~ 18 hours	~ 3 days

Note: Times are approximate and will be affected by changing ambient conditions

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

The surface must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by vacuum. Pull off strength shall not be less than 1.5 N/mm<sup>2</sup>. If in doubt apply a test area first.

### MIXING

Prior to mixing, stir part A mechanically. When all of part B has been added to part A, mix continuously for 3 minutes until a uniform mix has been achieved. During the mixing of the Components A and B add 5–7 % clean water. To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix. After mixing give the material a rest for 10 minutes. Over mixing must be avoided to minimise air entrainment.

#### Mixing Tools:

Sikafloor®-304 W must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.

### APPLICATION

Prior to application, confirm substrate moisture content, relative humidity and dew point. Uniformly spread Sikafloor®-304 W by using a short pile nylon roller. Sikafloor®-304 W can also be applied by using a airless spray equipment. A seamless finish can be achieved if a “wet” edge is maintained during application.

### CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use.  
Hardened and/or cured material can only be removed mechanically.

## FURTHER INFORMATION

#### Substrate Quality & Preparation

Please refer to Sika Method Statement: “EVALUATION AND PREPARATION OF SURFACES FOR FLOORING SYSTEMS”.

#### Application Instructions

Please refer to Sika Method Statement: “MIXING & APPLICATION OF FLOORING SYSTEMS”.

#### Maintenance

Please refer to “Sikafloor®- CLEANING REGIME”.

## IMPORTANT CONSIDERATIONS

- Freshly applied Sikafloor®-304 W must be protected from damp, condensation and water for at least 7 days (+20 °C).
- Unevenness of substrates as well as inclusions of dirt cannot be covered by thin sealers coats. Therefore substrate and adjacent areas must be cleaned thoroughly prior to application.
- If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO<sub>2</sub> and H<sub>2</sub>O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

## BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

## LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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ISO 9001: Sika UAE LLC,  
Sika Gulf B.S.C. (c),  
Sika Saudi Arabia Co. Ltd,  
Sika Qatar LLC  
ISO 14001: Sika UAE LLC,  
Sika Gulf B.S.C. (c),  
Sika Saudi Arabia Co. Ltd  
OHSAS: Sika UAE LLC,  
Sika Gulf B.S.C. (c)

All products are supplied  
under a management  
system certified to conform  
to the requirements of the  
quality, environmental and  
occupational health &  
safety standards ISO 9001,  
ISO 14001 and OHSAS  
18001.

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