

SYSTEM DATA SHEET

Sika Comfortfloor® PS-23

SEAMLESS, SMOOTH, UNICOLOUR, LOW VOC, ELASTIC POLYURETHANE FLOOR COVERING

PRODUCT DESCRIPTION

Sika Comfortfloor® PS-23 is a highly elastic polyurethane self-smoothing flooring system and is part of the Sika Comfortfloor® decorative flooring range. Sika Comfortfloor® PS-23 system is especially designed for indoor applications where high comfort under feet, design, jointless surface and soft footfall are required.

Sika Comfortfloor® PS-23 consists of a highly elastic, crack bridging polyurethane base coat which fulfils as well the stringent demands for low VOC emitting products.

USES

Sika Comfortfloor® PS-23 may only be used by experienced professionals.

- Healthcare – Medical sector
- Education (e.g. Schools and Universities)
- Leisure & Culture (e.g. Museums, Libraries)
- Retail & Residential

CHARACTERISTICS / ADVANTAGES

- Decorative & Comfortable
- Soft footfall
- Odourless
- Good resistance to fire
- Low VOC content
- Crack-bridging
- Silky matt finish
- Good mechanical and abrasion resistance
- Easy application
- Easy to keep clean and maintain

ENVIRONMENTAL INFORMATION

- Eurofins Emission tested according to the AgBB-scheme and guidelines of the DiBt (AgBB – Committee for Health-related Evaluation of Building Products, DiBt – German Institute for Building Technology). Sampling, testing and evaluation were performed according to ISO-16000, Report No. 770029B
- Conformity with LEED v2009 IEQc 4.2: Low-Emitting Materials - Paints and Coatings

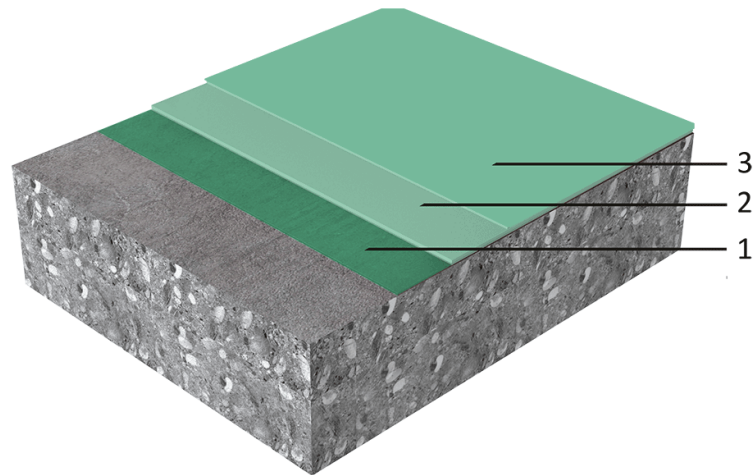
APPROVALS / STANDARDS

- Fire classification according to EN 13501-1, Test institute Hoch Fladungen Germany, Report No. KB-Hoch-090977
- Cleanroom® suitable material as part of the Sika ComfortFloor® system for particle emission and biological resistance. Fraunhofer IPA, Germany report no. SI 1008-533
- Impact sound reduction according EN ISO 140-8, test report 102-B-08, Iba Institut Gottfried & Rolof Germany.
- Resistance to stubbed and burning cigarettes in accordance with EN 1399 Method A_102-E-08
- Determination of wear resistance EN 651:2004, indentation EN 433:2004 and effect of simulated movement of furniture leg according EN 424:2002 reports 391578-02 TFI institute Aachen Germany.
- M1 emission class approved by RTS Finland.
- Synthetic resin screed material according to EN 13813:2002, Declaration of Performance and provided with the CE mark
- Surface protection coating for concrete according to EN 1504-2:2004, Declaration of Performance and provided with the CE mark

SYSTEM INFORMATION

System Structure

Sika Comfortfloor® PS-23



Layer	Product
1. Primer	Sikafloor®-156/-161
2. Base coat	Sikafloor®-330
3. Top coat	Sikafloor®-305W

Chemical base	Polyurethane
Appearance	Smooth, matt finish
Colour	Available in almost unlimited choice of colour shades.
Nominal Thickness	~ 2-3 mm
Volatile organic compound (VOC) content	Very low content of Volatile Organic Compounds. It fulfils the stringent demands for indoor air quality and low VOC emitting products AFFSET, M1, AgBB, EMICODE and A+.

TECHNICAL INFORMATION

Shore A Hardness	~ 80 (14 days/+23°C)	(DIN 53505)
Resistance to Wearing	Wearing group P	(EN 660-2:1999)
Resistance to moving furniture	No damage	(EN 424:2002)
Castor chair resistance	No damage (25000 cycles)	(EN 425:1994)
Resistance to Impact	Class I (~ 4 N/m)	(ISO 6272)
Indentation	0.05 mm	(EN 433:1994)
Tensile Strength	~ 8.0 N/mm ² (14 days/+23°C/Base coat)	(DIN 53504)
Tensile Adhesion Strength	> 1.5 N/mm ²	(EN 13892-8)
Elongation at Break	~ 150% (14 days/+23°C/Base coat)	(DIN 53504)
Reaction to Fire	Bfl-s1	(EN 13501-1)
Resistance to Stubbed Cigarettes	Class 4	(EN 1399)
Chemical Resistance	Sika Comfortfloor® PS-23 always has to be sealed with Sikafloor®-305 W. Refer to the chemical resistance of Sikafloor®-305 W.	
UV Exposure	8 / Colour fastness	(EN ISO 105-B02:2002)
USGBC LEED Rating	Conforms Section EQ (Indoor Environmental Quality), Credit 4.2 Low-Emitting Materials Paints and Coatings. Calculated VOC content ≤ 50 g/l	

Sound Insulation 2 dB (EN ISO 140-8)

Skid / Slip Resistance R10 / R11 (DIN 51130)

APPLICATION INFORMATION

Consumption	Layer	Product	Consumption
	1. Primer	Sikafloor®-156/-161	~0.4 kg/m ² /layer
	2. Base coat	Sikafloor®-330	~2.6–2.8 kg/m ² (2 mm)
	3. Top coat	Sikafloor®-305W + 5% water	~0.15 kg/m ² /layer

Consumptions are theoretical and do not include any wastage or additional materials needed due to porosity, substrate profile etc.

Product Temperature +15 °C min. / +30 °C max.

Ambient Air Temperature +15 °C min. / +30 °C max.

Relative Air Humidity 80 % max.

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 other disturbance of the surface on the floor finish

Substrate Temperature +15 °C min. / +30 °C max.

Substrate Moisture Content Sika Comfortfloor® PS-23 can be installed on substrates with moisture content of max. 4% (checked by Tramex). The substrate needs to be visibly dry and have adequate pull-off strength min 1.5 N/mm². Check rising moisture.

Applied Product Ready for Use	Temperature	Foot traffic	Light traffic	Full cure
	+15 °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 and substrate conditions

PRODUCT INFORMATION

Packaging Please refer to the individual Product Data Sheets

Shelf Life Please refer to the individual Product Data Sheets

Storage Conditions Please refer to the individual Product Data Sheets

MAINTENANCE

CLEANING

Please refer to the Sikafloor®- Cleaning Regime

FURTHER DOCUMENTS

Substrate quality & Preparation

Please refer to Sika Information Manual: "Evaluation and preparation of surfaces for flooring systems".

Application instructions

Please refer to Sika Information Manual: "Mixing & Application of flooring systems".

Maintenance

Please refer to "Sikafloor®- Cleaning regime".

LIMITATIONS

- Freshly applied Sikafloor® products must be protected from damp, condensation and water for at least 24 hours.
- Uncured material reacts in contact with water (foaming).
- During application care must be taken that no sweat drops into fresh Sikafloor® products (wear head and wrist bands).
- For exact colour matching, ensure the Sikafloor® product in each area is applied from the same control batch number.
- Under certain conditions, underfloor heating or high ambient temperatures combined with high point loading, may lead to imprints in the resin.
- If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO₂ and H₂O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

VALUE BASE

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

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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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