

SYSTEM DATA SHEET

Sika Comfortfloor® PS-27

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



DESCRIPTION

Sika Comfortfloor® PS-27 is a tough-elastic polyurethane self-smoothing flooring system and is part of the Sika Comfortfloor® decorative flooring range. Sika Comfortfloor® PS-27 is especially designed for indoor applications where seamless hardwearing floors are required.

Sika Comfortfloor® PS-27 consists of a tough-elastic, crack bridging polyurethane base coat which fulfils as well the stringent demands for low VOC emitting products.

USES

Sika Comfortfloor® PS-27 may only be used by experienced professionals.

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

CHARACTERISTICS / ADVANTAGES

- Odourless
- Good resistance to fire
- Low VOC content
- Flexible and tough-elastic
- 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- and French labelling schemes and guidelines. Sampling, testing and evaluation were performed according to ISO-16000, Report No 392-2013-00094801_02

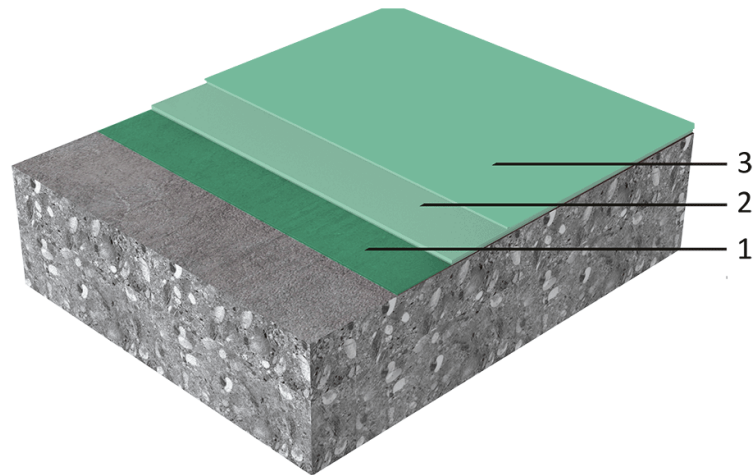
APPROVALS / STANDARDS

- Fire classification according to EN 13501-1, report CR-13-167/1 Ghent University
- 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-27



Layer	Product	Consumption
1. Primer	Sikafloor® -156/-161/-701	~ 0.4 kg/m ² /layer
2. Base coat	Sikafloor® -327	~ 2.8kg/m ² (2 mm)
3. Top coat	Sikafloor® -305W	~ 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.
 As optional primers Sikafloor® -144/-159/-160 can be used. Please refer to the individual Product Data Sheet.
 As additional protective layer Sikafloor® -304W can be used. Please refer to the individual Product Data Sheet.

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 AgBB, A+

TECHNICAL INFORMATION

Shore D Hardness	~ 65 (14 days/+23°C)	(DIN 53505)
Abrasion Resistance	< 3000 mg	(EN ISO 5470-1)
Resistance to Impact	Class I	(ISO 6272)
Tensile Adhesion Strength	> 2.0 N/mm ²	(EN 13892-8)
Reaction to Fire	Bfl-s1	(EN 13501-1)
Chemical resistance	Sika Comfortfloor® PS-27 always has to be sealed with Sikafloor®-305 W. Refer to the chemical resistance of Sikafloor®-305 W.	
Resistance to UV Exposure	8 / Colour fastness	(EN ISO 105-B02:2002)
Permeability to Water Vapour	Class III	(EN ISO 7783-1/-2)
Capillary Absorption	< 0.01 Kg/m ² x h x 0.5	(EN 1062-3)
Permeability to Carbon Dioxide	> 50 meter	(EN 1062-6)
Skid / Slip Resistance	R10 / R11	(DIN 51130)

APPLICATION INFORMATION

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 Comfloor® PS-27 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/mm ² . 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

- 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.

FURTHER DOCUMENTS

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".

BASIS OF PRODUCT DATA

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. 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.

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.

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.

Sika Hellas ABEE
15 Protomagias Str.
14568 Kryoneri
Attica-Greece
Tel.: +30 210 8160 600
Fax: +30 210 8160 606
www.sika.gr | sika@gr.sika.com



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