

## SYSTEM DATA SHEET

# Sikafloor® MultiFlex PB-52

BROADCAST, UNICOLOUR, HIGH PERFORMANCE POLYURETHANE FLOOR COVERING WITH TOP SEALER OVER ELASTIC MEMBRANE

### PRODUCT DESCRIPTION

Sikafloor® MultiFlex PB-52 is a dynamic crack-bridging, waterproofing and slip resistant polyurethane flooring system and is part of the Sikafloor® Multiflex flooring range.

Sikafloor® MultiFlex PB-52 is especially designed for use in car park intermediate non UV exposed decks where seamless, weather and hardwearing floors are required.

Sikafloor® MultiFlex PB-52 consists of a high elastic polyurethane membrane, a crack bridging polyurethane base coat over which a flexible, non-blushing epoxy top coat is applied, in order to provide a well-defined surface profile certified according to EN 1504 and DIN V 18026 - OS11a.

### USES

Sikafloor® MultiFlex PB-52 may only be used by experienced professionals.

- For non UV exposed car park decks
- Turning areas in car parks

### CHARACTERISTICS / ADVANTAGES

- Elastic, watertight
- Dynamic crack bridging properties
- High mechanical resistance
- Good chemical resistance
- Scratch resistant surface
- Low dirt pick up
- Easy to clean and maintain
- Seamless, easy application
- Anti-slip surface

### ENVIRONMENTAL INFORMATION

Conformity with LEED v2009 IEQc 4.2: Low-Emitting Materials - Paints and Coatings

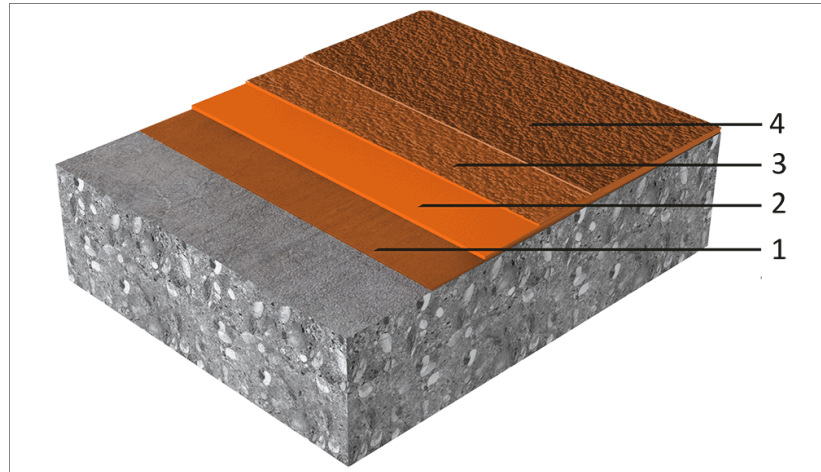
### APPROVALS / STANDARDS

- Reaction to fire classification according to DIN EN 13501-1, Test institute Hoch Institut Germany, Report No.120022
- Coating for concrete protection according to EN 1504-2:2004 and provided with the CE-mark.
- Dynamic Crack-bridging Class B3.2 (-20 °C) - OS 11a, certified as part of the Surface Protection System OS 11a according to DIN V 18026 (Rili-DAfStb) test report No. 8 II 13/670.

# SYSTEM INFORMATION

## System Structure

## Sikafloor® MultiFlex PB-52



Layer	Product
1. Primer	Sikafloor®-150/-151 + Aggregate broadcast 0.3–0.8 mm
2. Membrane	Sikafloor®-350 N
3. Wear coat	Sikafloor®-375 (filled 1:0.4 with quartz sand 0.06–0.3 mm) + Aggregate broadcast 0.6–1.2 mm
4. Top coat	Sikafloor®-378

<b>Composition</b>	Polyurethane, Epoxy
<b>Appearance</b>	Slip resistant, glossy finish
<b>Colour</b>	Available in RAL 7023, 7030, 7032, 7035, 7037, 7038, 7040, 7042, 9002, 9010 Other colour shades on request.
<b>Nominal Thickness</b>	~ 4-6 mm

## TECHNICAL INFORMATION

<b>Shore D Hardness</b>	~ 60 (14 days/+23 °C)	(DIN 53505)
<b>Abrasion Resistance</b>	24 mg (CS 10/1000/1000)	(DIN 53109)
<b>Resistance to Impact</b>	Class I	(ISO 6272)
<b>Tensile Strength</b>	~ 11 N/mm <sup>2</sup>	(EN 53504)
<b>Tensile Adhesion Strength</b>	> 1.5 N/mm <sup>2</sup>	(EN 1542)
<b>Crack Bridging Ability</b>	Class B3.2 (-20 °C)	(EN 1062-7)
<b>Reaction to Fire</b>	Bfl-s1	(EN 13501-1)
<b>Chemical Resistance</b>	Sikafloor® MultiFlex PB-52 always has to be sealed with Sikafloor®-378. Refer to the chemical resistance of Sikafloor®-378.	
<b>Permeability to Water Vapour</b>	Class III	(EN ISO 7783-1)
<b>Capillary Absorption</b>	w<0.1 kg/(m <sup>2</sup> x h <sup>0.5</sup> )	(EN 1062-3)
<b>Permeability to CO2</b>	S <sub>d</sub> ≥ 50 m	(EN 1062-6)
<b>Skid / Slip Resistance</b>	R11/V4	(DIN 51130)

## APPLICATION INFORMATION

Consumption	Layer	Product	Consumption
	1. Primer	Sikafloor®-150/-151 + Aggregate broadcast 0.3–0.8 mm	~ 0.4 kg/m <sup>2</sup> /layer ~ 1.0 kg/m <sup>2</sup>
	2. Membrane	Sikafloor®-350 N	~ 2.2 kg/m <sup>2</sup>
	3. Wear coat	Sikafloor®-375 (filled 1:0.4 with quart sand 0.06–0.3 mm) + Aggregate broadcast 0.6–1.2 mm	~ 2.5 kg/m <sup>2</sup> (mixture) ~ 6.0–8.0 kg/m <sup>2</sup>
	4. Top coat	Sikafloor®-378	~ 0.7–0.9 kg/m <sup>2</sup> /layer
Consumptions are theoretical and do not include any wastage or additional materials needed due to porosity, substrate profile etc.			
Product Temperature	+10 °C min. / +30 °C max.		
Ambient Air Temperature	+10 °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	+10 °C min. / +30 °C max.		
Substrate Moisture Content	Sikafloor® MultiFlex PB-52 can be installed on substrates with moisture content of max. 4 % (checked by Tramex). The substrate needs to be visibly dry and have an adequate pull-off strength min 1.5 N/mm <sup>2</sup> . Check for rising moisture.		
Applied Product Ready for Use	<b>Temperature</b>	<b>Foot traffic</b>	<b>Light traffic</b>
	+10 °C	~ 72 hours	~ 6 days
	+20 °C	~ 24 hours	~ 4 days
	+30 °C	~ 18 hours	~ 2 day
			<b>Full cure</b>
			~ 10 days
			~ 7 days
			~ 5 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 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.

## 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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