

## SYSTEM DATA SHEET

# Sikafloor® MultiFlex PB-55 UV

Polyurethane UV resistant elastic membrane car park decking system

### DESCRIPTION

Sikafloor® MultiFlex PB-55 UV is a polyurethane, coloured, UV resistant, dynamic crack-bridging, slip-resistant car park decking system and is part of the Sikafloor® Multiflex flooring range. It provides a hard wearing, seamless, chemical resistant, low maintenance, slip resistant finish when broadcast with different aggregate grades and sealed with a matt finish seal coat. Varying thickness's can be achieved from 4,0 –6,0 mm. Internal and external use.

### USES

Sikafloor® MultiFlex PB-55 UV may only be used by experienced professionals.

For car park decks:

- UV exposed
- Turning areas

### CHARACTERISTICS / ADVANTAGES

- Waterproof
- Resistant to UV exposure
- Dynamic crack bridging properties
- High mechanical resistance
- Good chemical resistance
- Good abrasion resistance
- Textured gloss finish
- Low dirt pick up
- Easy cleanability
- Seamless
- Slip and skid resistant surface
- Scratch resistant surface
- Easy application
- Low maintenance

### ENVIRONMENTAL INFORMATION

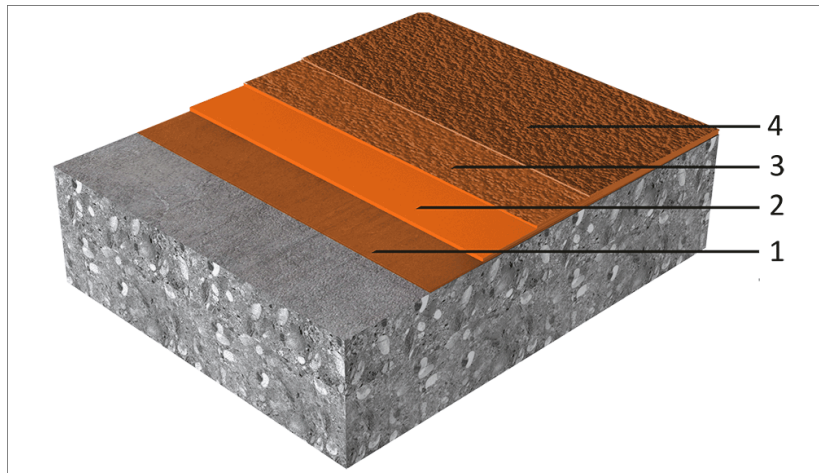
- Conformity with LEED v2009 IEQc 4.2: Low-Emitting Materials - Paints and Coatings

### APPROVALS / STANDARDS

- CE Marking and Declaration of Performance to EN 1504-2 - Surface protection product for concrete - Coating - Sikafloor®-156, Sikafloor®-160, Sikafloor®-161, Sikafloor®-376, Sikafloor®-359 N
- CE Marking and Declaration of Performance to EN 13813 - Resin screed material for internal use in buildings - Sikafloor®-156, Sikafloor®-160, Sikafloor®-161, Sikafloor®-376, Sikafloor®-359 N
- Coating system DAFStb Test Class OS 11 EN 1504-2, Sikafloor® MultiFlex PB-55 UV, kiwa, Test report No. P 11284-1b
- Reaction to Fire Classification DIN EN 13501-1, Sikafloor® MultiFlex PB-55 UV, Hoch, Classification report No. KB-Hoch-180049-2

# SYSTEM INFORMATION

## System Structure



Layer	Product
1. Primer	Sikafloor®-156/-160/-161 + Aggregate broadcast 0,4–0,8 mm
2. Membrane	Sikafloor®-376
3. Wearing layer	Sikafloor®-377 (filled 1:0.4 with quartz sand 0,1–3 mm) + Aggregate broadcast 0,4–0,8 mm
4. Seal / top coat	Sikafloor®-359 N

Composition	Polyurethane
Appearance	Textured, slip resistant, matt finish
Colour	Available in many colours
Nominal thickness	~4–6 mm

## TECHNICAL INFORMATION

Shore A Hardness	~60 (14 days/+23 °C)	(DIN 53505)
Abrasion Resistance	< 3000 mg (CS 10/1000/1000)	(DIN 53109)
Resistance to Wearing	AR 0,5	(DIN EN 13813)
Resistance to Impact	Class I	(SO 6272)
Tensile Strength	~11 N/mm <sup>2</sup>	(EN 53504)
Tensile Adhesion Strength	> 1,5 N/mm	(EN 1542)
Crack Bridging Ability	Class B3,2 (-20 °C)	(EN 1062-7)
Reaction to Fire	Cfl-s1	(EN 13501-1)
Chemical Resistance	Sikafloor® MultiFlex PB-55 UV always has to be sealed with Sikafloor®-359 N. Refer to the chemical resistance of Sikafloor®-359 N.	
Permeability to Water Vapour	Class III	(EN ISO 7783-1)
Capillary Absorption	w < 0,01 kg/(m <sup>2</sup> ·h <sup>0.5</sup> )	(EN 1062-3)
Skid / Slip Resistance	R12/V4	(DIN 51130)

## APPLICATION INFORMATION

Consumption	Layer	Product	Consumption
	1. Primer	Sikafloor®-156/-160/-161 + Aggregate broadcast 0,4–0,8 mm	~0,4 kg/m <sup>2</sup> /layer ~1,0 kg/m <sup>2</sup>
	2. Membrane	Sikafloor®-376	~1,9 kg/m <sup>2</sup> (1)
	3. Wearing layer	Sikafloor®-377 (filled 1:0,5 with quartz sand 0,1–0,3 mm) + Aggregate broadcast 0,4–0,8 mm	~1,7 kg/m <sup>2</sup> (resin) + ~0,85 kg/m <sup>2</sup> (quartz sand) (2) ~6,0–8,0 kg/m <sup>2</sup>
	4. Seal / top coat	Sikafloor®-359 N	~0,7–0,9 kg/m <sup>2</sup> /layer
<p>(1) Depends on roughness depth Rz (all values at +23 °C)</p> <ul style="list-style-type: none"> <li>▪ Rz = 0,0: ~1,9 kg/m<sup>2</sup></li> <li>▪ Rz = 0,5: ~2,5 kg/m<sup>2</sup></li> <li>▪ Rz = 1,0: ~3 kg/m<sup>2</sup></li> </ul> <p>(2) Depends on temperature</p> <ul style="list-style-type: none"> <li>▪ +23 °C: Filling 1:0,5 with quartz sand 0,1–0,3 mm</li> <li>▪ &lt; +15 °C: Filling 1:0,4 with quartz sand 0,1–0,3 mm</li> </ul> <p>These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc.</p>			
<b>Product Temperature</b>	+10 °C min. / +30 °C max.		
<b>Ambient Air Temperature</b>	+10 °C min. / +30 °C max.		
<b>Relative Air Humidity</b>	80 % max.		
<b>Dew Point</b>	The substrate and uncured floor products must be at least +3 °C above dew point to reduce the risk of condensation or surface damage of the floor finish.		
<b>Substrate Temperature</b>	+10 °C min. / +30 °C max.		
<b>Substrate Moisture Content</b>	≤4 % parts by weight Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).		
<b>Applied Product Ready for Use</b>	<b>Temperature</b>	<b>Foot traffic</b>	<b>Light traffic</b>
	+10 °C	~24 hours	~3 days
	+20 °C	~12 hours	~2 days
	+30 °C	~5 hours	~1 days
	Full cure		
			~7 days
			~5 days
			~4 days
	Times are approximate and will be affected by changing ambient and substrate conditions		

## 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.

## FURTHER DOCUMENTS

- Sika® Method Statement: Sikafloor®-Cleaning Regime
- Sika® Method Statement: Mixing & Applications of Flooring Systems
- Sika® Method Statement: Evaluation and Preparation of Surfaces for Flooring Systems
- Individual Product Data Sheets within the flooring system

## 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 onto the 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 numbers.
- If temporary 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.

## 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 Material Safety Data Sheet (MSDS) containing physical, ecological, toxicological and other safety-related data.

## MAINTENANCE

### CLEANING

Refer to Sika® Method Statement: Sikafloor®-Cleaning Regime

### 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.

### 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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#### SYSTEM DATA SHEET

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