

## SYSTEM DATA SHEET

# Sikafloor® MultiFlex PB-21 UV

BROADCAST, UNICOLOR, TOUGH-ELASTIC POLYURETHANE FLOOR COVERING WITH UV SEALER

### DESCRIPTION

Sikafloor® MultiFlex PB-21 UV is a multipurpose, tough-elastic and slip resistant polyurethane flooring system and is part of the Sikafloor® Multiflex flooring range.

Sikafloor® MultiFlex PB-21 UV is especially designed for use in many different industrial applications where seamless, UV and color stable, hardwearing floors are required.

Sikafloor® MultiFlex PB-21 UV consists of a tough-elastic, crack bridging polyurethane base coat over which a UV resistant top coat is applied, in order to provide a well defined surface profile and a non-yellowing final surface.

### USES

Sikafloor® MultiFlex PB-21 UV may only be used by experienced professionals.

- Car park decks, garage floors and bridges
- Exposed surfaces for UV resistance
- Life Science industry
- Automotive industry
- Industrial flooring for Storage, Logistic and Warehouses

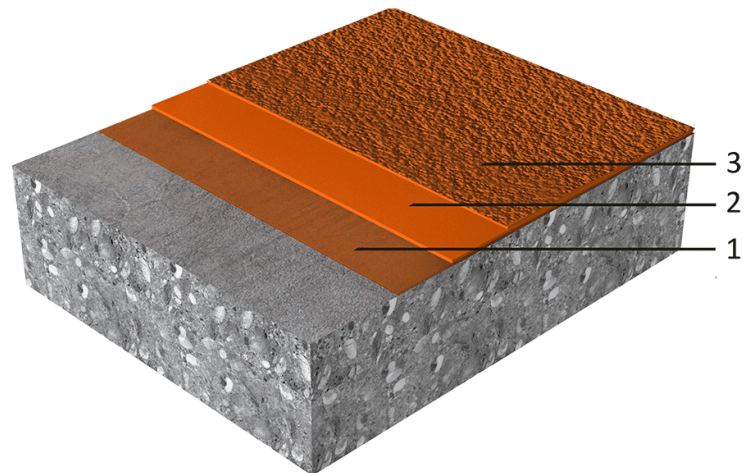
### CHARACTERISTICS / ADVANTAGES

- Tough-elastic, Watertight
- High mechanical resistance
- Good chemical resistance
- UV and colour stable
- Good opacity, matt finish
- Scratch resistant surface
- Low dirt pick up
- Easy to clean and maintain
- Seamless, Easy application
- Anti-slip surface

# SYSTEM INFORMATION

System Structure

Sikafloor® MultiFlex PB-21 UV



Layer	Product
1. Primer	Sikafloor®-161 HC
2. Base coat	Sikafloor®-375 + Aggregate broadcast (Quartz Sand 0.3–0.9 mm)
3. Top coat	Sikafloor®-359 N

Alternative broadcast can be done by using quartz sand 0.7–1.2 mm at the respective covering rate of the top coat. Please check the individual Product Data Sheet.

<b>Composition</b>	Polyurethane
<b>Appearance</b>	Slip resistant, matt finish
<b>Colour</b>	Almost unlimited choice of colour shades.
<b>Nominal Thickness</b>	~2.5–3.5 mm

## TECHNICAL INFORMATION

<b>Shore D Hardness</b>	~60 (14 days / +23 °C)	(DIN 53505)
<b>Abrasion Resistance</b>	160 mg (CS 10/1000/1000)	(DIN 53109)
<b>Resistance to Impact</b>	Class I	(ISO 6272)
<b>Compressive Strength</b>	~60 N/mm <sup>2</sup>	(EN 196-1)
<b>Tensile Strength</b>	~11 N/mm <sup>2</sup>	(DIN 53504)
<b>Tensile Adhesion Strength</b>	> 2.0 N/mm <sup>2</sup>	(EN 13892-8)
<b>Reaction to Fire</b>	Bfl-s1	(EN 13501-1)
<b>Chemical Resistance</b>	Sikafloor® MultiFlex PB-21 UV always has to be sealed with Sikafloor®-359 N. Refer to the chemical resistance of Sikafloor®-359 N.	
<b>Permeability to Water Vapour</b>	Class III	(EN ISO 7783-1)
<b>Capillary Absorption</b>	$w < 0.1 \text{ kg}/(\text{m}^2 \times \text{h}^{0.5})$	(EN 1062-3)
<b>Permeability to Carbon Dioxide</b>	Sd = 2020 m	(EN 1062-6)

## APPLICATION INFORMATION

## Consumption

Layer	Product	Consumption
1. Primer	1–2 layers x Sikafloor®-161 HC	~0.2–0.4 kg/m <sup>2</sup> /layer
2. Base coat	Sikafloor®-375 + Filling with quartz sand Sikadur®-508, 0.1–0.3 mm (filling ratio 1:0.3–0.5) + Aggregate broadcast Sikadur®-501, 0.3–0.9 mm or Sikadur®-509, 0.7–1.2 mm	~1.8 kg/m <sup>2</sup> ~0.5–0.9 kg/m <sup>2</sup> ~4.0–6.0 kg/m <sup>2</sup>
3. Top coat	2 layers x Sikafloor®-359 N	~0.4–0.5 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.

<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>	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																
<b>Substrate Temperature</b>	+10 °C min. / +30 °C max.																
<b>Substrate Moisture Content</b>	Sikafloor® MultiFlex PB-21 UV 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 <sup>2</sup> . Check rising moisture.																
<b>Applied Product Ready for Use</b>	<table><thead><tr><th>Temperature</th><th>Foot traffic</th><th>Light traffic</th><th>Full cure</th></tr></thead><tbody><tr><td>+15 °C</td><td>~48 hours</td><td>~5 days</td><td>~10 days</td></tr><tr><td>+20 °C</td><td>~24 hours</td><td>~3 days</td><td>~7 days</td></tr><tr><td>+30 °C</td><td>~16 hours</td><td>~2 days</td><td>~3 days</td></tr></tbody></table>	Temperature	Foot traffic	Light traffic	Full cure	+15 °C	~48 hours	~5 days	~10 days	+20 °C	~24 hours	~3 days	~7 days	+30 °C	~16 hours	~2 days	~3 days
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Note: Times are approximate and will be affected by changing ambient and substrate conditions

## PRODUCT INFORMATION

<b>Packaging</b>	Please refer to the individual Product Data Sheets
<b>Shelf Life</b>	Please refer to the individual Product Data Sheets
<b>Storage Conditions</b>	Please refer to the individual Product Data Sheets

## MAINTENANCE

### CLEANING

Please refer to the Sikafloor®- Cleaning Regime

### FURTHER DOCUMENTS

#### Substrate Quality and Preparation

Please refer to Sika Method Statement: "Evaluation and preparation of concrete surfaces for Sika's 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® 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 color 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.

## 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.

## 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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SYSTEM DATA SHEET  
Sikafloor® MultiFlex PB-21 UV  
October 2019, Version 02.01  
02081290000000019

SikafloorMultiFlexPB-21UV-en-MY-(10-2019)-2-1.pdf