

SYSTEM DATA SHEET

Sikafloor® MultiFlex PB-21

BROADCAST, UNICOLOUR, HIGH PERFORMANCE POLYURETHANE FLOOR COVERING

PRODUCT DESCRIPTION

Sikafloor® MultiFlex PB-21 is a multipurpose, tough-elastic and slip resistant polyurethane flooring system and is part of the Sikafloor® Multiflex flooring range. Sikafloor® MultiFlex PB-21 is especially designed for use in different indoor industrial applications where rough, seamless hardwearing floors are required. Sikafloor® MultiFlex PB-21 consists of a tough-elastic, crack bridging polyurethane base coat which is covered with an elastic top coat layer of non-blushing epoxy resin, certified according to EN 1504 and DIN V 18026 as OS 13.

USES

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

- For car park decks, garage floors and bridges
- Life Science industry
- Automotive industry
- Industrial flooring for Storage, Logistic and Sales areas
- Retail (e.g. Shopping Centres)

CHARACTERISTICS / ADVANTAGES

- Good mechanical resistance
- Good crack bridging ability
- Good chemical resistance
- Scratch resistant surface
- Low dirt pick up
- Easy to clean and maintain
- Seamless
- Anti-slip surface
- Low VOC content
- Watertight and easy to apply

ENVIRONMENTAL INFORMATION

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

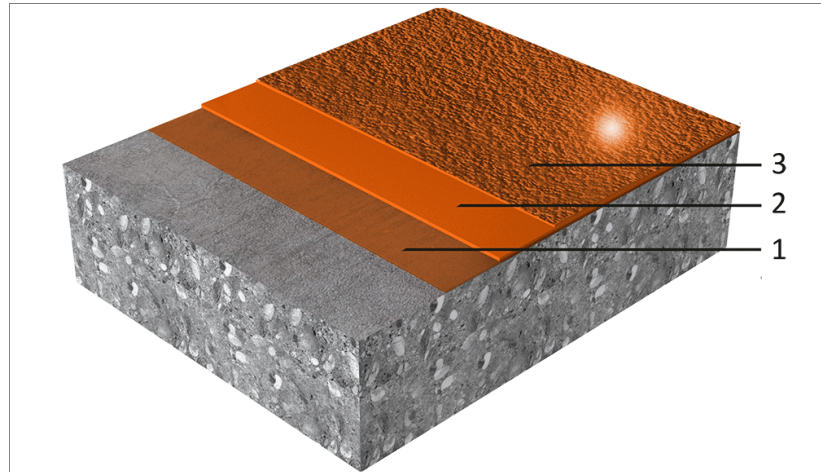
APPROVALS / STANDARDS

- Synthetic resin screed material according to EN 13813:2002, Declaration of Performance and provided with the CE mark
- Coating for surface protection of concrete according to EN 1504-2:2004, Declaration of Performance and provided with the CE mark
- Certified as part of the Surface Protection System OS 13 according to DIN V 18026 (Rili-DAfStb) test report No. P 9966
- Reaction to Fire Classification according to DIN EN 13501-1 tested at Prüfinstitute Hoch, report number KB-Hoch-161200

SYSTEM INFORMATION

System Structure

Sikafloor® MultiFlex PB-21



Layer	Product
1. Primer	Sikafloor®-150/-151 + Light broadcast of Quartz sand 0.3–0.8 mm
2. Base coat	Sikafloor®-375 + Quartz sand 0.06–0.3 mm addition (filling ratio 1:0.3–0.5) + Aggregate broadcast 0.6–1.2 mm
3. Top coat	Sikafloor®-378

Alternative broadcast can be done by using quart sand 0.3–0.8 mm at the respective covering rate of the top coat. Please check the individual Product Data Sheet.

As optional primers Sikafloor® -144/-156 can be used. Please refer to the individual Product Data Sheet. As an alternative top coat Sikafloor®-354 diluted with Thinner C can be used. Please refer to the individual Product Data Sheet.

Composition	Polyurethane, Epoxy
Appearance	Slip resistant, glossy finish
Colour	Available in RAL 7023, 7030, 7032, 7035, 7037, 7038, 7040, 7042, 9002, 9010 Other colour shades upon request.
Nominal Thickness	~2.5–3.5 mm

TECHNICAL INFORMATION

Shore D Hardness	~ 60 (14 days/+23 °C)	(DIN 53505)
Abrasion Resistance	24 mg (CS 10/1000/1000)	(DIN 53109)
Resistance to Impact	Class I	(ISO 6272)
Compressive Strength	~ 60 N/mm ²	(EN 196-1)
Tensile Strength	~ 11 N/mm ²	(DIN 53504)
Tensile Adhesion Strength	> 2.0 N/mm ²	(EN 13892-8)
Reaction to Fire	B _{fi} -s1	(DIN EN 13501-1)
Chemical Resistance	Sikafloor® MultiFlex PB-21 always has to be sealed with Sikafloor®-378. Refer to the chemical resistance of Sikafloor®-378.	

APPLICATION INFORMATION

Consumption	Layer	Product	Consumption
	1. Primer	Sikafloor®-150/-151 + Light broadcast of Quartz sand 0.3–0.8 mm	~0.4 kg/m ² /layer
	2. Base coat	Sikafloor®-375 + Quartz sand 0.06–0.3 mm addition (filling ra- tio 1:0.3–0.5)	~1.8 kg/m ² ~0.5-0.9 kg
		+ Aggregate broadcast 0.6–1.2 mm	~4.0–6.0 kg/m ²
	3. Top coat	Sikafloor®-378	~ 0.8–0.9 kg/m ²

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-21 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 ² . Check for rising moisture.

Applied Product Ready for Use	Temperature	Foot traffic	Light traffic	Full cure
	+15 °C	~ 72 hours	~ 6 days	~ 10 days
+20 °C	~ 24 hours	~ 4 days	~ 7 days	
+30 °C	~ 18 hours	~ 2 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 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.

SIKA LIMITED

Watchmead
Welwyn Garden City
Hertfordshire, AL7 1BQ
Tel: 01707 394444
Web: www.sika.co.uk
Twitter: @SikaLimited



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