

SYSTEM DATA SHEET

Sikafloor® MultiFlex PB-32 UV

TOUGH-ELASTIC UV STABLE POLYURETHANE FLOORING / DECK SYSTEM

DESCRIPTION

Sikafloor® MultiFlex PB-32 UV is a multipurpose, tough-elastic and slip resistant polyurethane flooring system and is part of the Sikafloor® Multiflex flooring range.

Sikafloor® MultiFlex PB-32 UV is especially designed for use in many different industrial applications where seamless, UV and color stable, hardwearing floors are required and makes use of Sika's unique i-Cure technology to improve surface aesthetics and reduce sensitivity for ambient humidity during application.

Sikafloor® MultiFlex PB-32 UV consists of a tough-elastic, crack bridging polyurethane base coat over which a UV resistant top coat to fulfil as well the stringent demands for low VOC emitting products.

USES

Sikafloor® MultiFlex PB-32 UV may only be used by experienced professionals.

- Car Park Decks and Ramps
- Life Science industry
- Automotive industry
- Industrial flooring for Storage, Logistic centers

CHARACTERISTICS / ADVANTAGES

- High mechanical resistance
- Good chemical resistance
- Good UV resistance
- Scratch resistant surface
- Low dirt pick up
- Easy to clean and maintain
- Seamless
- Anti-slip surface
- Low VOC content

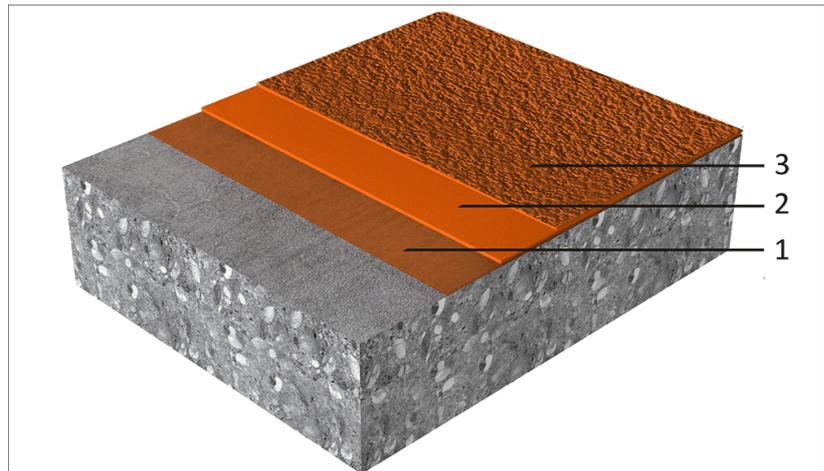
APPROVALS / CERTIFICATES

- Synthetic resin screed material according to EN13813:2002, Declaration of Performance and provided with the CE marking
- Coating for surface protection of concrete according to EN 1504-2:2004, Declaration of Performance and provided with the CE marking
- Fire classification reports No. 20150909/01 MPA Dresden

SYSTEM INFORMATION

System structure

Sikafloor® MultiFlex PB-32 UV



Layer	Product	Consumption
1. Primer	Sikafloor®-160 or Sikafloor®-161	~0.4 kg/m ² /layer
2. Base coat	Sikafloor®-377 (filled 1:0.4 with quartz sand 0.1–0.3 mm) + Aggregate broadcast 0.4 - 0.8 mm	~2.2 kg/m ² (1.5mm) ~4.0 -5.0 kg/m ²
3. First Seal Coat	Sikafloor®-377 Tinted	~0.7–0.9 kg/m ²
4. Final Top Coat	Sikafloor 359N	~0.2–0.25 kg/m ²

Consumptions are theoretical and do not include any wastage or additional materials needed due to porosity, substrate profile etc.

Composition	Polyurethane
Appearance	Slip resistant, matt finish
Colour	Almost unlimited choice of colour shades.
Nominal thickness	~3 mm

TECHNICAL INFORMATION

Shore D Hardness	~60 (7 days / 23 °C / 50 % r.h.)	(DIN 53505)
Abrasion resistance	~160 mg (CS 10/1000/1000)	(DIN 53109)
Tensile strength	~14 N/mm ² (14 days / 23 °C / 50 % r.h.)	(DIN EN ISO 527-2)
Tensile adhesion strength	> 2.0 N/mm ²	(EN 13892-8)
Reaction to fire	Bfl-s1	(EN 13501-1)
Chemical resistance	Sikafloor® MultiFlex PB-32 UV always has to be sealed with Sikafloor®-359N therefore, refer to the chemical resistance of Sikafloor®-359N.	
Skid / slip resistance	R10 / R11	(DIN 51130)

APPLICATION INFORMATION

Material 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-32 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 ² . Check for rising moisture.			
Applied product ready for use	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

Note: 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 INFORMATION

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".

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 CO₂ and H₂O 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 Safety Data Sheet (SDS) con-

taining physical, ecological, toxicological and other safety-related data.

SUBSTRATE QUALITY

The substrate should meet the minimum requirements of 25mpa compressive and 1.5mpa minimum pull off value: Please refer to the Sika Work Method Statement: Evaluation and Preparation of Surfaces for Flooring Systems

SUBSTRATE PREPARATION

The concrete surface should be suitably prepared by Captive Shot Blasting or Diamond Grinding to achieve a CSP 3 then vacuum cleaned to remove all dust and surface contaminants, all curing agents should be fully removed, Please refer to the Sika Work Method Statement: Evaluation and Preparation of Surfaces for Flooring Systems. Reglets should be cut next to drains and live edge terminations to ensure a secure and waterproof transition.

MIXING

Please refer to the Sika Work Method Statement: Mixing & Application of Flooring Systems: Please refer to individual Product Data Sheets for further information.

APPLICATION

1: Patching: Static cracks and surface defects should be repaired using SikaDur 33 Epoxy paste or other epoxy repair method subject to size and rectification required, all repairs should be finished smooth and flush with the concrete substrate: Please consult the Sika Technical Department for further details or information.

2.: Priming: An evaluation should be conducted to determine if double priming maybe required, once priming is completed the surface should be completely sealed with no presence of pinholes to ensure substrate outgassing does not continue in later applications. For ramps and falls extra broadcast material should be applied to slow the rate of flow for when wearing layer is to be applied.

Single Primer Applications : Mix and apply the Sikafloor 160 or 161 via a squeegee at the required thickness and back roll once applied to make even, Fill all pin holes and uneven surfaces, while still wet lightly broadcast the required washed and dried sand aggregate. Do not add thinners.

Double Primer Applications : 1st Application: Mix and apply Sikafloor 160 via a squeegee at the required thickness and back roll once applied to make even. Fill all pin holes and uneven surfaces. 2nd Application: Mix and apply the Sikafloor 161, Sikafloor filler can be added to the Sikafloor 161 at various addition rates to create a "Scratch Coat" mix.

3. Wearing Course: Mix the Full kit of Sikafloor 377 for 1 minute, then add between 7-10kg of Sikafloor filler and mix for a further 2 minutes (Addition rate is adjustable, subject to site and ambient conditions) apply with a V-Notch Squeegee to a minimum coverage of 1.5mm, a hand trowel can be used for edge, joint and drain, terminations, once installed a Spike Roller or 10-12mm Nap paint roller should be used to even out the applied Sikafloor 377 to remove squeegee marks and trowel edges to ensure a consistent and even coverage. Using Rounded Tip Spike Shoes, Broadcast the Sikafloor 377 with the Selected aggregate to refusal, there should be no glossy or bald spots.

Top Coats: NB: For best results the application of top coats should be completed in 2 x applications, a sealer coat and final finish top coat, Sikafloor 377 Tinted can be used for the first sealer coat in order to keep costs down, with the final finish top coat of Sikafloor 359N required to provide UV stability.

4: Sealer Coat : After sweeping and vacuuming to remove excess sand, Mix the Sikafloor 377 with the addition of 2 x 1.15kg Color Packs in the required color, Do not add fillers to the sealer coat. Apply with a medium rubber squeegee, working across the face, back and forth in single smooth motions, Using a 10- 12mm Nap Painters roller, back roll the floor to remove any drips and heavy applied material, once material has been evened out, use the un-loaded roller to "lay off the floor" taking care to lay the floor off in a single direction, working across the flooring edge from end to end in a single smooth motion. Failure to lay the floor off in an effective manner may result in a patchy or un-even finish,

5: Final UV stable Top Coat Mix the Sikafloor 359 and apply with a medium rubber squeegee, working across the face, back and forth in single smooth motions, Using a 10- 12mm Nap Painters roller, back roll the floor to remove any drips and heavy applied material, once material has been evened out, use the un-loaded roller to "lay off the floor" taking care to lay

the floor off in a single direction, working across the flooring edge from end to end in a single smooth motion. Failure to lay the floor off in an effective manner may result in a patchy or un-even finish.

MAINTENANCE

CLEANING

Please refer to the Sikafloor® Cleaning Regime

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product 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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