

SYSTEM DATA SHEET

Sikafloor® MultiFlex PB-32

Polyurethane slip-resistant tough-elastic flooring system

DESCRIPTION

Sikafloor® MultiFlex PB-32 is a polyurethane, slip resistant, tough-elastic flooring system. It provides a safe slip resistant surface in dry and wet conditions.

USES

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

Industrial slip resistant resin flooring on cementitious substrates for:

- Life Science production areas
- Automotive production plants
- Storage areas
- Logistic areas
- Multi-storey and underground car park intermediate decks
- Change Rooms and Locker Rooms

CHARACTERISTICS / ADVANTAGES

- Thickness ~3,0 mm.
- Good mechanical resistance
- Good chemical resistance
- Scratch resistant surface
- Low dirt pick up
- Easy cleanability
- Seamless
- Slip and skid resistant surface
- i-Cure based technology wearing layer
- Low VOC content
- Low maintenance
- Application on asphalt surfaces

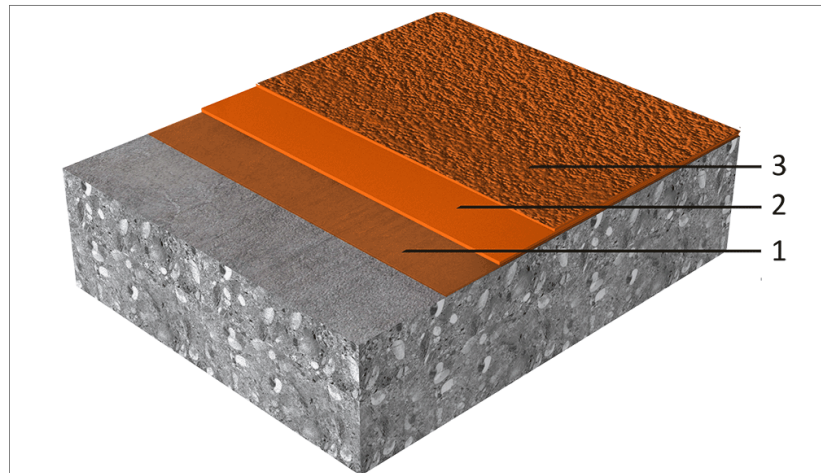
APPROVALS / CERTIFICATES

- CE Marking and Declaration of Performance to EN 1504-2 - Surface protection product for concrete - Coating
- CE Marking and Declaration of Performance to EN 13813 - Resin screed material for internal use in buildings

SYSTEM INFORMATION

System structure

Sikafloor® MultiFlex PB-32 (~ 3,0 mm)



Layer	Product	Consumption
1. Primer	Sikafloor®-160/-161	~0,4 kg/m ² /layer
2. Wearing layer	Sikafloor®-377 (Filled 1.0kg: 0.3kg With Sikafloor Filler)	~1,8 – 2,0 kg/m ²
Broadcast	Quartz Sand (0,4–0,8 mm) to excess	~4,0 – 5,0 kg/m ²
3. Seal Coat	Sikafloor®-377 (tinted with 2 x 1.15kg Pigment)	~0,7 – 0,9 kg/m ²
4. Top Coat	Sikafloor®-377 (tinted with 2 x 1.15kg Pigment)	~0,2 – 0,3 kg/m ²

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc.

Composition	Polyurethane, epoxy
Appearance	Slip resistant, glossy finish
Colour	Please refer to the Sika Australia Epoxy Color Chart
Nominal thickness	~3 mm

TECHNICAL INFORMATION

Shore D Hardness	~60 (7 days / 23 °C / 50 % r.h.)	(DIN 53505)
Abrasion resistance	~24 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)
Reaction to fire	Bfl-s1	(EN 13501-1)
Chemical resistance	Sikafloor® MultiFlex PB-32 always has to be sealed with Sikafloor®-377. Refer to the chemical resistance of Sikafloor®-377.	
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 applied floor material must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the surface of the applied product.			
Substrate temperature	+10 °C min. / +30 °C max.			
Substrate moisture content	≤ 4 % parts by weight The following test methods can be used: Sika®-Tramex meter, CM - measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).			
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

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

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

- 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

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 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.
- Under certain conditions, underfloor heating or high ambient temperatures combined with high point loading, may lead to indentations in the resin.
- If temporary 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) containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The substrate should meet the minimum requirements of 25mpa compressive and 1.5mpa minimum pull of 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 out-gassing does not continue in later applications. For ramps and falls extra broadcast material should be applied to slow the rate of flow for when the membrane 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 to aid in filling of pinholes and uneven surfaces: Apply the Sikafloor 161 by a squeegee at the required thickness and back roll once applied to make even, ensure to fill all pin holes and uneven surfaces, while still wet lightly broadcast the required washed and dried aggregate.

Do not add thinners.

3. Wearing Course: Mix the full kit of Sikafloor 377 for 1 minute, then add between 5-8kg of Sikafloor Filler and mix for a further 2 minutes (Addition Rate is Adjustable, subject to site conditions) Once Mixed, Apply with V-Notch Rubber squeegee to the required thickness of 1-1.5mm, a hand trowel can be used for edge, joint and drain terminations, once installed a Spike Roller or 12mm Nap Paint Roller should be used to even out the applied Sikafloor 377 to remove squeegee marks and trowel edges to ensure an even smooth and consistent coverage. Broadcast

the Sikafloor 377 with the selected aggregate to refusal, there should be no bald spots.

Topcoats: NB: For best results the application of topcoats should be completed in 2 x applications, a sealer coat and final finish topcoat, Sikafloor 377 Tinted with Sikafloor Epoxy Pigment 1.15kg, 2 x Colour packs should be added to the Kit of Sikafloor 377.

4.Sealer Coat: After sweeping and vacuuming to remove excess sand, Mix the Sikafloor 377 with the addition of 2 x 1.15kg Epoxy Pigments in the required colour. Do not add fillers to the sealer coat. Apply with a medium rubber squeegee, working across the face, back and forth in single sweeping motions, Using a 12mm Nap Paint roller, back roll the floor in the opposite direction the squeegee was moving to remove any drips and even out the coverage, once the back roll has taken place to remove excess material, using an "un-loaded" paint roller, "lay off" the floor in the opposite direction, taking care to use large single movement actions. Failure to lay the floor off correctly may result in a patchy or uneven finish.

5. Topcoat if required: Same as sealer coat however with reduced material consumption

MAINTENANCE

CLEANING

Refer to Sika Method Statement: 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 recommenda-

tions. 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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