

## SYSTEM DATA SHEET

# Sikafloor® MultiFlex PB-55

## POLYURETHANE ELASTIC MEMBRANE CAR PARK DECKING SYSTEM

### DESCRIPTION

Sikafloor® MultiFlex PB-55 is a polyurethane, coloured, elastic membrane, 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 gloss finish seal coat. Thickness ~6,0 mm. Internal use.

### USES

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

For car park decks:

- Non UV exposed
- Intermediate
- Turning areas

### CHARACTERISTICS / ADVANTAGES

- Waterproof
- 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

### SUSTAINABILITY

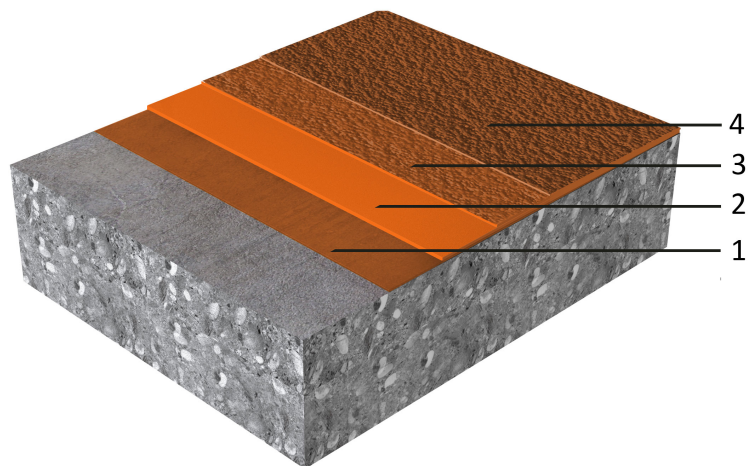
- Conformity with LEED v2009 IEQc 4.2: Low-Emitting Materials - Paints and Coatings - Sikafloor®-376, Sikafloor®-377

### APPROVALS / CERTIFICATES

- Fire testing EN 13501-1, Sikafloor® Multiflex PB-55, Hoch, Report No. KB-Hoch-180026
- Surface Protection System EN 1504-2, Sikafloor® Multiflex PB-55, QDB, Certificate No. P 10777-1
- 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®-378
- Coating system DAfStb Test Class OS 11, Sikafloor® MultiFlex PB-55, kiwa, Test report No. P 10777-1
- Wear resistance EN 13892-4, Sikafloor® Multiflex PB-55, kiwa, Report No. P 10777-4

# SYSTEMS

## 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 0,1–0,3 mm) + Aggregate broadcast 0,4–0,8mm (or 0,7–1,2 mm) |
| 4. Seal / top coat | Sikafloor®-378                                                                                            |

|             |                                                                                                                       |
|-------------|-----------------------------------------------------------------------------------------------------------------------|
| Composition | Polyurethane, epoxy                                                                                                   |
| Appearance  | Textured, slip resistant, glossy finish                                                                               |
| Colour      | Available colours: ~RAL 7023, 7030, 7032, 7035, 7037, 7038, 7040, 7042, 9002, 9010<br>Other colour shades on request. |

## TECHNICAL INFORMATION

|                              |                                                                               |                          |
|------------------------------|-------------------------------------------------------------------------------|--------------------------|
| Shore D Hardness             | ~60 (14 days/+23 °C)                                                          | (DIN 53505)              |
| Abrasion Resistance          | 2415 mg (H 22/1000/1000)                                                      | (DIN EN ISO 5470-1:1999) |
| Resistance to Wearing        | AR 0,5                                                                        | (DIN EN 13813)           |
| Resistance to Impact         | Class I                                                                       | (ISO 6272)               |
| Tensile Strength             | ~11 N/mm <sup>2</sup>                                                         | (EN 53504)               |
| Tensile Adhesion Strength    | > 1.5 N/mm                                                                    | (EN 1542)                |
| Crack Bridging Ability       | Class B 3,2 (-20 °C)                                                          | (EN 1062-7)              |
| Reaction to Fire             | Bfl-s1                                                                        | (EN 13501-1)             |
| Chemical Resistance          | Sikafloor®-378 provides the chemical resistance. Refer to Product Data Sheet. |                          |
| 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       | R11/V4                                                                        | (DIN 51130)              |

## APPLICATION INFORMATION

| Consumption                                                                                                               | Layer                                                                                                                                                     | Product                                                                                                                  | Consumption                                             |
|---------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|
|                                                                                                                           | 1. Primer                                                                                                                                                 | Sikafloor®-156/-160/-161<br>+ Aggregate broadcast<br>0,4–0,8 mm                                                          | ~0,4 kg/m <sup>2</sup> /layer<br>~1,0 kg/m <sup>2</sup> |
|                                                                                                                           | 2. Membrane                                                                                                                                               | ESikafloor®-376                                                                                                          | ~1,9 kg/m <sup>2</sup>                                  |
|                                                                                                                           | 3. Wearing layer                                                                                                                                          | Sikafloor®-377 (filled<br>1:0.4 with quartz sand<br>0,1–0,3 mm)<br>+ Aggregate broadcast<br>0,4–0,8mm (or 0,7–1,2<br>mm) | ~2,4 kg/m <sup>2</sup><br>~6,0–8,0 kg/m <sup>2</sup>    |
|                                                                                                                           | 4. Seal / top coat                                                                                                                                        | Sikafloor®-378                                                                                                           | ~0,7 kg/m <sup>2</sup> /layer                           |
| Product Temperature                                                                                                       | +10 °C min. / +30 °C max.                                                                                                                                 |                                                                                                                          |                                                         |
| Ambient Air Temperature                                                                                                   | +10 °C min. / +30 °C max.                                                                                                                                 |                                                                                                                          |                                                         |
| Relative Air Humidity                                                                                                     | 80 % max.                                                                                                                                                 |                                                                                                                          |                                                         |
| Dew Point                                                                                                                 | 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. |                                                                                                                          |                                                         |
| Substrate Temperature                                                                                                     | +10 °C min. / +30 °C max.                                                                                                                                 |                                                                                                                          |                                                         |
| Substrate Moisture Content                                                                                                | ≤4 % parts by weight<br>Test method: 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                                           |
|                                                                                                                           | +10 °C                                                                                                                                                    | ~72 hours                                                                                                                | ~6 days                                                 |
|                                                                                                                           | +20 °C                                                                                                                                                    | ~24 hours                                                                                                                | ~4 days                                                 |
|                                                                                                                           | +30 °C                                                                                                                                                    | ~18 hours                                                                                                                | ~2 days                                                 |
| Full cure                                                                                                                 |                                                                                                                                                           |                                                                                                                          |                                                         |
| ~10 days                                                                                                                  |                                                                                                                                                           |                                                                                                                          |                                                         |
| ~7 days                                                                                                                   |                                                                                                                                                           |                                                                                                                          |                                                         |
| ~5 days                                                                                                                   |                                                                                                                                                           |                                                                                                                          |                                                         |
| Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity. |                                                                                                                                                           |                                                                                                                          |                                                         |

## PRODUCT INFORMATION

|                    |                                             |
|--------------------|---------------------------------------------|
| Packaging          | Refer to the individual Product Data Sheets |
| Shelf life         | Refer to the individual Product Data Sheets |
| Storage conditions | Refer to the individual Product Data Sheets |

## MAINTENANCE

### CLEANING

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

## 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.
- 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.

## 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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