

## SYSTEM DATA SHEET

## Sikafloor® MonoFlex MB-25

BROADCAST, 1 COMPONENT POLYURETHANE, CRACK BRIDGING FLOOR FINISH

**DESCRIPTION**

Sikafloor® MonoFlex MB-25 is a durable, flexible, slip resistant floor coating for balconies, terraces, stairs or terraces and it is part of the Sikafloor® MonoFlex flooring series.

Sikafloor® MonoFlex MB-25 is composed of one part, pigmented, highly elastic, solvent containing, UV resistant, polyurethane layer which is broadcast full with natural quartz sand and covered with a polyurethane, one component trafficable pigmented coat.

Sikafloor® MonoFlex MB-25 makes use of Sika's unique i-Cure technology to improve surface aesthetics and reduce sensitivity for ambient humidity during application.

**USES**

Sikafloor® MonoFlex MB-25 may only be used by experienced professionals.

- For balconies, terraces, footbridges, stairways, galleries etc.
- As slip resistant, UV resistant, waterproof, crack-bridging coating for concrete, cementitious screed substrates and tiles.
- For light to medium mechanical exposure

**CHARACTERISTICS / ADVANTAGES**

- Elastic
- Good UV and yellowing resistance
- Weather resistant
- Abrasion resistant under normal traffic conditions
- Slip resistant surface

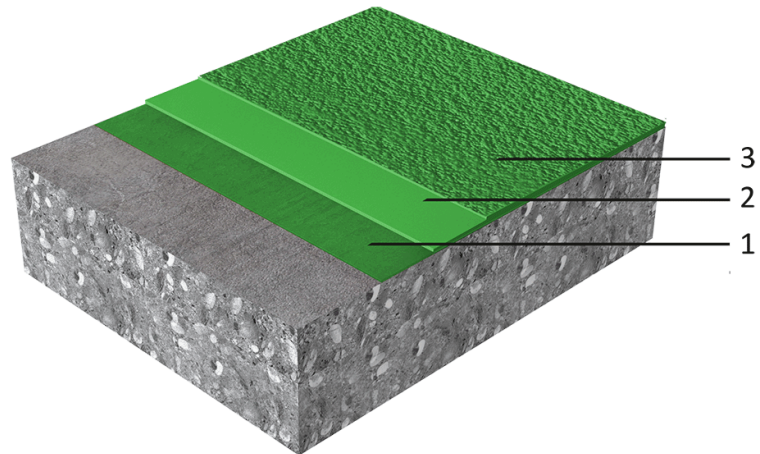
**APPROVALS / CERTIFICATES**

- Synthetic resin screed material according to EN 13813:2002, 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. WF 389848 from EX-OVA Warringtonfire
- Accelerated Abrasion Resistance test in accordance with BS 8204-2:2003 + A2:2011
- Determination of Static Crack Bridging Ability according to EN 1062-7, report number 25547, test performed at Vinci Technology Center, United Kingdom
- Resistance to Urine of Polyurethane Coating Systems in accordance with the principles outlined in EN 2812-3:2012-10 Determination of resistance to liquids Part 3: Method using a absorbent medium.
- Determination of Odour concentration according to EN 13725:2003, test performed at Odournet, Report – No.: 456-2014-00
- Determination of Hedonic Tone according to VDI 3882 and ISO 16000-28 (D), test performed at Odournet, Report – No.: 456-2014-00
- Determination of Slip Resistance In Shod Conditions, Inclined Platform Test according to DIN 51130:2010, test report no. (17669)-5162 performed at Lucideon Limited, United Kingdom

# SYSTEMS

## System Structure

## Sikafloor® MonoFlex MB-25



Layer	Product	Consumption
1. Primer	Sikafloor®-161/-156/-701	~0.5 kg/m <sup>2</sup> /layer
2. Base Coat	Sikafloor®-420 Natural Quartz Sand (0.4-0.8 mm)	~0.8–1.3 kg/m <sup>2</sup> Full broadcast
3. Top Coat	Sikafloor®-420	~0.3–0.5 kg/m <sup>2</sup>

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

<b>Chemical base</b>	Polyurethane
<b>Appearance</b>	Slip resistant, matt finish
<b>Colour</b>	Multiple color shades available
<b>Nominal Thickness</b>	~1.5–2 mm

## TECHNICAL INFORMATION

<b>Resistance to Impact</b>	IR > 4 Nm	(EN 13813)
<b>Tensile Adhesion Strength</b>	B2.0	(EN 13813)
<b>Crack Bridging Ability</b>	<b>Value</b> >5000 μ	<b>Class</b> A5 (BS EN 1062-7)
<b>Reaction to Fire</b>	Bfl-s1	(EN 13501)
<b>Chemical Resistance</b>	Sikafloor® MonoFlex MB-25 is resistant to many chemicals. Please refer to the chemical resistance of Sikafloor®-420.	
<b>Microbiological Resistance</b>	Synthetic Urine (Uric acid)	No Change; No Change 0 (S0) <sup>0</sup> (ISO 4628-2)
<b>Permeability to Water Vapour</b>	Class III	(EN 1062-6)
<b>Capillary Absorption</b>	w = 0.004 kg (m <sup>2</sup> ·h <sup>0.5</sup> )	(EN 1062-3)
<b>Permeability to Carbon Dioxide</b>	Sd=61 m	(EN 1062-6)
<b>Skid / Slip Resistance</b>	<b>Category</b> R11	<b>Critical angle</b> 25.1° (DIN 51130:2010)

## APPLICATION INFORMATION

Product Temperature	+5 °C min. / +30 °C max.
Ambient Air Temperature	+5 °C min. / +30 °C max.
Relative Air Humidity	35% min. / +80% max.
Dew Point	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	+5 °C min. / +30 °C max.
Substrate Moisture Content	Sikafloor® MonoFlex MB-25 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.

Applied Product Ready for Use	Temperature (r.h. 50%)	Rain resistant	Foot traffic	Full cure
	+10°C	~15 hours	~1–2 days*	~7–14 days*
	+20°C	~5 hours	~24 hours*	~5–9 days*
	+30°C	~3 hours	~18 hours*	~3–5 days*

\*Strongly influenced by layer thickness  
Note: Times are approximate and will be affected by changing ambient 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 Method Statement: "Evaluation and preparation of surfaces for flooring systems".

### Application Instructions

Please refer to Sika Method Statement: "Mixing & Application of flooring systems".

## LIMITATIONS

- Do not apply Sikafloor® Monoflex systems on substrates with rising moisture.
- Freshly applied Sikafloor® Monoflex systems must be protected from damp, condensation and water for at least 24 hours.
- Prior to overcoating with Sikafloor® Monoflex systems, the priming coats must have cured tack-free.
- Do not overcoat Sikafloor®-420 with Sikafloor®-410
- Do not use for interior applications.
- Always apply during falling temperatures. If applied during rising temperatures "pin holing" may occur from rising air.

- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- For exact colour matching, ensure the Sikafloor® Monoflex systems in each area are applied from the same control batch numbers.
- Under certain conditions, under floor 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, stor-

age 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 Hellas ABEE  
15 Protomagias Str.  
14568 Kryoneri  
Attica-Greece  
Tel.: +30 210 8160 600  
Fax: +30 210 8160 606  
www.sika.gr | sika@gr.sika.com



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