

SYSTEM DATA SHEET

Sikafloor® MonoFlex MB-23

Smooth, 1-component polyurethane, crack bridging floor finish

DESCRIPTION

Sikafloor® MonoFlex MB-23 is a durable, flexible, smooth floor coating for balconies, terraces, stairs or terraces and it is part of the Sikafloor® MonoFlex flooring series.

Sikafloor® MonoFlex MB-23 is composed of one part, pigmented, highly elastic, solvent containing, UV resistant, polyurethane layer which is left exposed as decorative floor or is optionally covered with a polyurethane, one component trafficable clear coat.

USES

Sikafloor® MonoFlex MB-23 may only be used by experienced professionals.

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

CHARACTERISTICS / ADVANTAGES

- Highly elastic
- Crack-bridging properties
- Waterproof
- Good UV yellowing resistance
- Weather resistant
- Abrasion resistant under normal traffic conditions

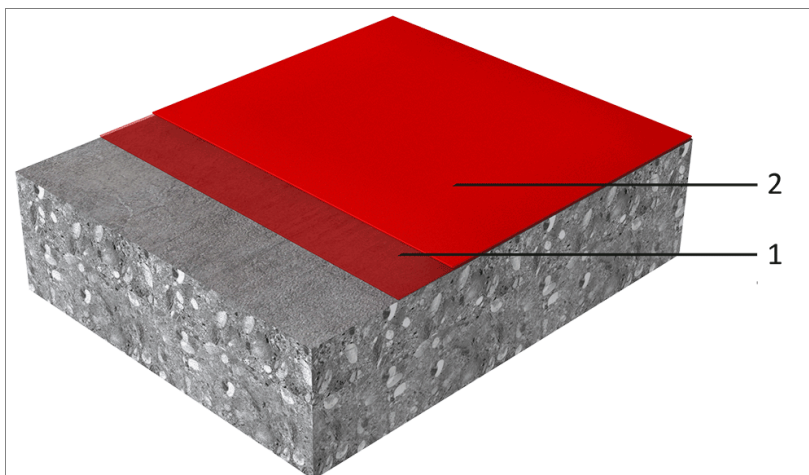
APPROVALS / CERTIFICATES

- 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 389846 from EX-OVA Warringtonfire
- Accelerated Abrasion Resistance test in accordance with BS 8204-2:2003 + A2:2011
- Indentation test after constant loading according to EN 433
- Determination of Static Crack Bridging Ability according to EN 1062-7, report number 25545, 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

SYSTEM INFORMATION

System structure

Sikafloor® MonoFlex MB-23



Layer	Product
1. Primer	Sikafloor®-150/-151 or Sika® Concrete Primer
2. Base Coat	Sikafloor®-420

Composition	Polyurethane
Appearance	Smooth finish
Colour	Multiple colour shades available Please contact our customer service, for information of which colors are sold in Denmark.
Nominal thickness	~1–2 mm

TECHNICAL INFORMATION

Abrasion resistance	~23 mg (CS10/1000/1000)	(BS EN ISO 7784-2:2006)
Resistance to impact	IR > 4 Nm	(EN 13813)
Indentation	<0.1 mm	(EN 433)
Tensile adhesion strength	B2.0	(EN 13813)
Tensile strain at break	+23 °C ~200 % -23 °C ~100 %	(EN ISO 527-3)
Crack bridging ability	Value 900 µ	Class A3 (BS EN 1062-7)
Reaction to fire	C _{fi} -s1	(EN 13501)
Chemical resistance	Sikafloor® MonoFlex MB-23 is resistant to many chemicals. Please refer to the chemical resistance of Sikafloor®-420.	
Microbiological resistance	Synthetic Urine (Uric acid)	No Change; No Change 0 (S0) ⁰ (ISO 4628-2)
Permeability to water vapour	Class III	(EN 1062-6)
Capillary absorption	w=0,004 kg / (m ² ·h ^{0,5})	(EN 1062-3)
Permeability to carbon dioxide	S _d = 61 m	(EN 1062-6)

APPLICATION INFORMATION

Consumption	Layer	Product	Consumption	
	1. Primer	Sikafloor®-150/-151 or Sika® Concrete Primer	~0,5 kg/m ² /layer	
	2. Base Coat	Sikafloor® -420	~0,8–1,3 kg/m ² /layer	
Consumptions are theoretical and do not include any wastage or additional materials needed due to porosity, substrate profile etc.				
Material 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-23 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 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				

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".

IMPORTANT CONSIDERATIONS

- 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.
- If an excessively thick layer of Sikafloor®-420 is applied, it might influence the curing and result in a soft surface that is difficult to clean. Therefore, it is recommended to apply Sikafloor®-420 in 2 thinner layers if in doubt.

- 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 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.

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April 2022, Version 04.03

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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

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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