

SYSTEM DATA SHEET

Sikafloor® MultiDur WS-10

Water-based epoxy, low VOC, smooth floor coating system

DESCRIPTION

Sikafloor® MultiDur WS-10 is a 2-part, water-based, epoxy resin, low VOC, smooth floor coating system

USES

Sikafloor® MultiDur WS-10 may only be used by experienced professionals.

Industrial resin flooring on cementitious substrates for:

- Normal up to medium heavy wear
- Storage areas
- Assembly halls
- Workshops
- Garages
- Processing areas
- Warehouses
- Multi-storey and underground car park decks
- Interior use only

CHARACTERISTICS / ADVANTAGES

- Thickness 0,2–0,3 mm
- Low VOC / AMC emissions
- Seamless
- Good chemical and mechanical resistance
- Easy application
- Water vapour permeable
- Water thinnable
- Easy cleanability

SUSTAINABILITY

- EMICODE EC1 PLUS
- Emission class M1
- GISCODE RE30
- EPD

DGNB – New buildings and extensive renovations, version 2020 2.0.0 :

The system complies with requirements for indicator 23 and 24, quality level 4, according to criteria matrix for ENV1.2/Environmentally hazardous substances. Documented by technical datasheet, safety datasheet and emission certificate (EC1 Plus/M1).

Click here to see other documents:

[Sikafloor®-2540 W](#)

APPROVALS / CERTIFICATES

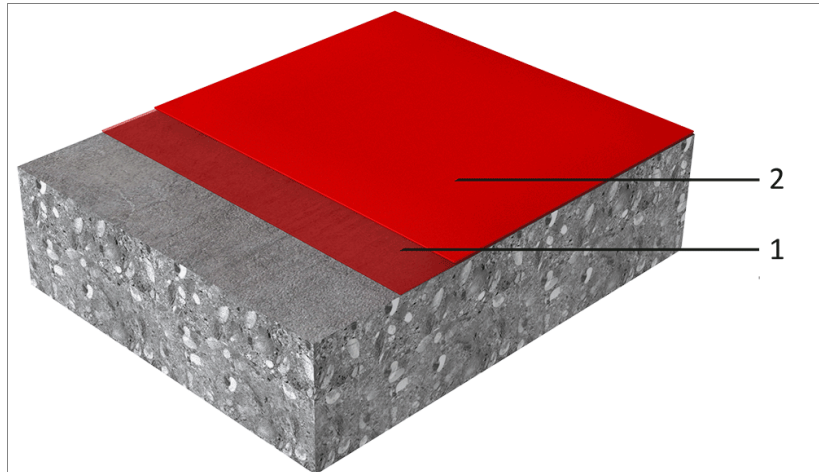
- CE Marking and Declaration of Performance to EN 1504-2 - Surface protection product for concrete - Coating
- CE Marking and Declaration of Performance to EN 13813 - Resin screed material for internal use in buildings
- Biological Resistance ISO 846, Sikafloor®-2540 W, CSM Fraunhofer, Approval No SI 1212-624
- Fire Testing DIN EN 13501-1, Sikafloor®-MultiDur WS-10, Hoch, Report No KB-Hoch-180711
- Fire Testing DIN EN ISO 11925-2, Sikafloor®-MultiDur WS-10, Hoch, Report No PB-Hoch-180709
- Fire Testing DIN EN ISO 9239-1, Sikafloor®-MultiDur WS-10, Hoch, Report No PB-Hoch-180710
- Migration Behaviour EN 1186, EN 13130, CEN/TS 14234, Sikafloor®-2540 W, ISEGA, Certificate No. 48312 U 18
- Outgassing Emissions VOC VDI 2083-17, Sikafloor®-2540 W, CSM Fraunhofer, Certificate No SI 1212-62
- Particle Emission EU GMP Annex 1, Sikafloor®-2540 W, CSM Fraunhofer, Certificate No SI 1212-624

SYSTEM DATA SHEET

Sikafloor® MultiDur WS-10
August 2022, Version 02.01
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SYSTEM INFORMATION

System structure



Sikafloor® MultiDur WS-10 system (~0,2-0,3 mm)

Layer	Product
1. Primer	Sikafloor®-2540 W
2. Top coat	Sikafloor®-2540 W

Composition	Water-based epoxy
Appearance	Smooth, semi-gloss finish
Colour	Available in many colours
Nominal thickness	~0,2–0,3 mm

TECHNICAL INFORMATION

Abrasion resistance	~63 mg (CS 10/1000/1000) (14 days / +23°C)	(EN ISO 5470-1 Taber Abrader Test)								
Reaction to fire	Bfl-S1	(DIN EN 13501-1)								
Chemical resistance	Resistant to many chemicals. Contact Sika Technical Service for specific information									
Temperature resistance	<table border="1"> <thead> <tr> <th>Exposure*</th> <th>Dry heat</th> </tr> </thead> <tbody> <tr> <td>Permanent</td> <td>+60 °C</td> </tr> <tr> <td>Short-term max. 7 days</td> <td>+80 °C</td> </tr> <tr> <td>Short-term max. 12 hours</td> <td>+100 °C</td> </tr> </tbody> </table> <p>Short-term moist/wet heat* up to +80 °C where exposure is temporary (i.e. during steam cleaning etc.) *No simultaneous chemical and mechanical exposure.</p>	Exposure*	Dry heat	Permanent	+60 °C	Short-term max. 7 days	+80 °C	Short-term max. 12 hours	+100 °C	
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Short-term max. 12 hours	+100 °C									
Skid / slip resistance	R9	(DIN 51130)								

APPLICATION INFORMATION

Consumption	Sikafloor® MultiDur WS-10 system (~0,2–0,3 mm)		
	Coating System	Product	Consumption
	1. Primer	1 × Sikafloor®-2540 W + 5% water by weight	~0,2–0,3 kg/m ²
	2. Top coat	1–2 × Sikafloor®- 2540 W	~0,2–0,3 kg/m ² / layer
Ambient air temperature	+10 °C min. / +30 °C max.		

Relative air humidity	< 75 % maximum. Adequate fresh air ventilation must be provided to remove excess moisture during curing.																		
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 blooming on the floor finish.																		
Substrate temperature	+10 °C min. / +30 °C max.																		
Substrate moisture content	≤ 6 % 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).																		
Waiting time to overcoating	<p>Before applying Sikafloor®-2540 W on Sikafloor®-2540 W allow:</p> <table border="1"> <thead> <tr> <th>Substrate temperature</th> <th>Minimum</th> <th>Maximum</th> </tr> </thead> <tbody> <tr> <td>+10 °C</td> <td>48 hours</td> <td>7 days</td> </tr> <tr> <td>+20 °C</td> <td>20 hours</td> <td>6 days</td> </tr> <tr> <td>+30 °C</td> <td>10 hours</td> <td>3 days</td> </tr> </tbody> </table> <p>Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity. If relative air humidity is ≥ 75 % the waiting time is increased by at least 24 hours.</p>			Substrate temperature	Minimum	Maximum	+10 °C	48 hours	7 days	+20 °C	20 hours	6 days	+30 °C	10 hours	3 days				
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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 Mixing & Applications of Flooring systems
- Sika Method Statement Evaluation and Preparation of Surfaces for Flooring systems

IMPORTANT CONSIDERATIONS

- Do not apply on substrates with rising moisture.
- After application, all the products must be protected from damp, condensation and water for at least 24 hours.
- Always ensure adequate fresh air ventilation when using Sikafloor® MultiDur WS-10 in confined spaces to avoid curing problems.
- The “gloss” of the finish can vary with temperature, humidity and the absorbency of the substrate.
- With light colour shades (e.g. yellow or orange) it may be necessary to apply several coats of Sikafloor®-2540 W to achieve full opacity (hiding power). Carry out a pre-trial to confirm.
- Under direct sun radiation there may be some discoloration and colour deviation, this has no influence on the function and performance of the coating.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective

cracking.

- For exact colour matching, ensure the Sikafloor®-2540 W 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.

MAINTENANCE

CLEANING

Refer to the Method Statement Sikafloor®-Cleaning Regime

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August 2022, Version 02.01
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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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