

SYSTEM DATA SHEET

Sikafloor® MultiDur WS-10

WATER-BASED EPOXY, LOW VOC, SMOOTH FLOOR COATING SYSTEM

PRODUCT 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

ENVIRONMENTAL INFORMATION

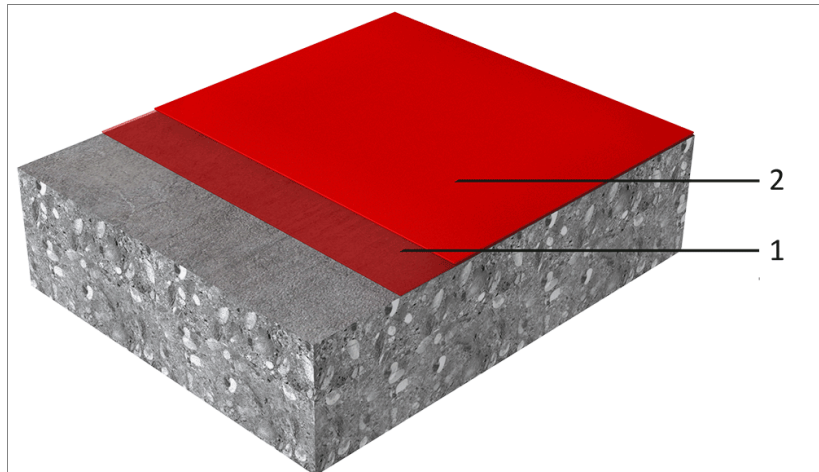
- VOC emission classification of building materials RTS M1
- VOC emission test report according to AgBB und DIBt approval requirements, test report G18793B-1
- Class A+ according to French Regulation on VOC emissions, test report 392-2014-00087005C-1

APPROVALS / STANDARDS

- 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 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									
Thermal 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	
Exposure*	Dry heat									
Permanent	+60 °C									
Short-term max. 7 days	+80 °C									
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)
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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 / Overcoating	Before applying Sikafloor®-2540 W on Sikafloor®-2540 W allow: <table border="1" style="width: 100%; margin-top: 5px;"> <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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Applied Product Ready for Use	Temperature	Foot traffic	Light traffic	Full cure
	+10 °C	~48 hours	~5 days	~10 days
	+20 °C	~20 hours	~3 days	~7 days
	+30 °C	~10 hours	~ 2 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

- Sika Information Manual Evaluation and Preparation of Surfaces for Flooring systems

CLEANING

Refer to the Information Manual Sikafloor®-Cleaning Regime

LIMITATIONS

- 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.

FURTHER DOCUMENTS

- Sika Information Manual Mixing & Applications of Flooring systems

- 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 Sika-floor®-2540 W to achieve full opacity (hiding power). Carry out a pre-trial to confirm.
- Under direct sun radiation there may be some discolouration 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.

VALUE BASE

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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