

## SYSTEM DATA SHEET

# Sikafloor® MultiDur ES-31

Smooth unicolour epoxy floor covering with improved chemical and mechanical resistance for flooring applications

SIKA NZ  
APPROVED  
CONTRACTOR  
ONLY

### DESCRIPTION

Sikafloor® MultiDur ES-31 is a smooth, coloured epoxy floor covering with high chemical and mechanical resistance for flooring applications

### USES

Sikafloor® MultiDur ES-31 may only be used by experienced professionals.

It is used in areas such as:

- Concrete and screed surfaces with high chemical and mechanical exposure.
- Production and processing areas in the food industry and automotive industry

Please note:

- The System may only be used by experienced professionals.

### CHARACTERISTICS / ADVANTAGES

- High chemical resistance
- High mechanical resistance
- Impermeable to liquids
- Good abrasion resistance

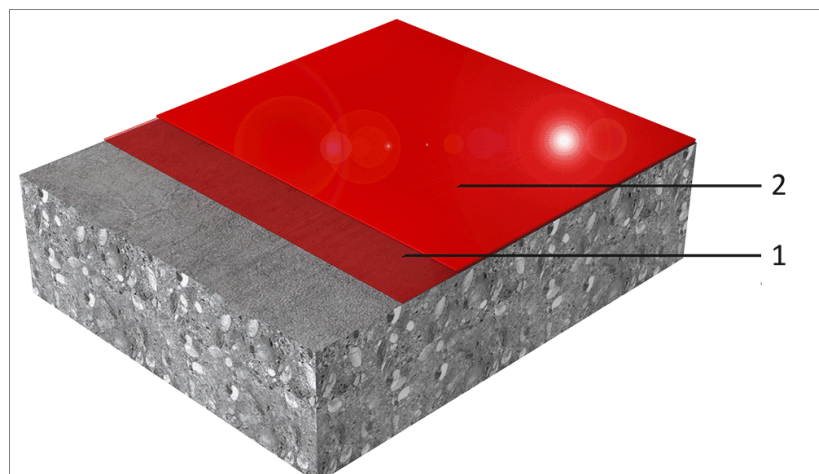
### APPROVALS / STANDARDS

- Fire Testing EN 13501-1, Sikafloor® MultiDur ES-31, University of Ghent, Report

## SYSTEM INFORMATION

### System Structure

### Sikafloor® MultiDur ES-31 SYSTEM (~2–3 MM)



1. Primer

Sikafloor®-150/-151

2. Wearing coat

Sikafloor®- 381

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Sikafloor® MultiDur ES-31  
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Composition	Epoxy
Appearance	Smooth, gloss finish
Colour	Available in various colour shades.
Nominal thickness	~2.0–3.0 mm

## TECHNICAL INFORMATION

Reaction to Fire	Bfl-S1	(EN 13501-1)
Chemical Resistance	Refer to the chemical resistance of Sikafloor®- 381	

## APPLICATION INFORMATION

Consumption	<b>Sikafloor® MultiDur ES-31 SYSTEM (~2–3 MM)</b>		
	<b>Coating System</b>	<b>Product</b>	<b>Consumption</b>
	Primer	1 x Sikafloor®-150/-151	~0.3–0.5 kg/m <sup>2</sup>
	Wearing coat	Sikafloor®- 381 filled with quartz sand 0.1–0.3 mm	1.8 kg/m <sup>2</sup> /mm binder + quartz sand +10 °C to +15 °C: without filling +15 °C to +20 °C: 1 : 0.1 pbw (1.65 + 0.15 kg/m <sup>2</sup> ) +20 °C to +30 °C: 1 : 0.2 pbw (1.5 + 0.3 kg/m <sup>2</sup> )

Note: Consumption data is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.

Product Temperature	Maximum	+30 °C
	Minimum	+10 °C

Ambient Air Temperature	Maximum	+30 °C
	Minimum	+10 °C

Relative Air Humidity	80 % r.h. max.
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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.
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Substrate Temperature	Maximum	+30 °C
	Minimum	+10 °C

Substrate Moisture Content	≤ 4% pbw using Sikafloor®-150. Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet). Osmosis caused by rising moisture or incorrect primer application is not covered by the product warranty. Substrates above 4% but less than 6% pbw maybe primed using Sikafloor®-151, Please note Sikafloor-151 offers no protection against rising moisture.
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Waiting Time / Overcoating	Before applying Sikafloor®-381 on Sikafloor®-150/-151 allow:		
	<b>Substrate temperature</b>	<b>Minimum</b>	<b>Maximum</b>
	+10 °C	24 hours	4 days
	+20 °C	12 hours	2 days
	+30 °C	8 hours	1 day

Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.

#### Applied Product Ready for Use

Temperature	Foot traffic	Light traffic	Full cure
+10 °C	~24 hours	~3 days	~10 days
+20 °C	~18 hours	~2 days	~7 days
+30 °C	~12 hours	~1 days	~5 days

Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.

## 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 DOCUMENTS

Please refer to :

- Sika® Method Statement Mixing & Applications of Flooring systems
- Sika® Method Statement Evaluation and Preparation of Surfaces for Flooring 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

Please refer to the Method Statement Sikafloor®-Cleaning Regime

## 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.

## 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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