

SYSTEM DATA SHEET

Sikafloor® MultiDur ES-31

Smooth, unicolour epoxy flooring system with very good chemical and mechanical resistance

PRODUCT DESCRIPTION

Sikafloor® MultiDur ES-31 is a smooth, coloured, rigid flooring coating system based on epoxy resins. It provides a hard wearing, seamless, low maintenance gloss finish with very good chemical and mechanical resistance.

USES

Sikafloor® MultiDur ES-31 installation works to be carried out only by Sika Approved Contractors. Please observe information given by Product Data Sheets.

Sikafloor® MultiDur ES-31 is used in industrial buildings such as:

- Automotive facilities
- Chemical and processing facilities
- Bunding areas
- Food and beverage facilities

Please note:

- The Product may only be used for interior applications.

CHARACTERISTICS / ADVANTAGES

- Very good resistance to specific chemicals
- Very good mechanical resistance
- Impermeable to liquids
- Good resistance to abrasion

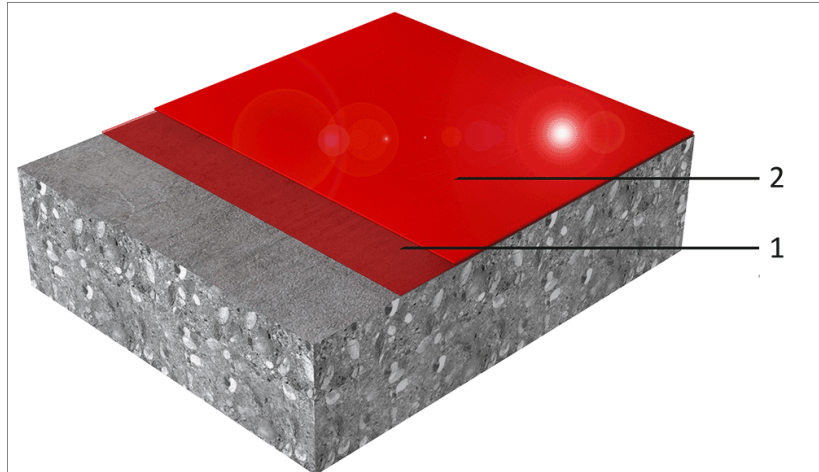
APPROVALS / STANDARDS

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

SYSTEM INFORMATION

System Structure

Sikafloor® MultiDur ES-31



Layer	Product
1. Primer	Sikafloor®-150 Sikafloor®-151 Sikafloor®-156 Sikafloor®-161 Sikafloor®-1590 Contact Sika technical service for information on choosing the right primer for your project.
2. Wearing layer	Sikafloor®-381

Composition	Epoxy
Appearance	Smooth, gloss finish
Colour	Cured system colour Available in various colour shades.
Nominal thickness	2 mm to 3 mm

TECHNICAL INFORMATION

Tensile adhesion strength	≥ 1.5 MPa	(EN 1542)
Reaction to Fire	Class B _{fl} -s1	(EN 13501-1)
Chemical Resistance	Laboratory-defined resistance to many individual chemicals. Before proceeding, contact Sika Technical Service for specific information.	(Requires chemical resistance chart in EDMS)

APPLICATION INFORMATION

Consumption	Layer	Product	Consumption
	Primer	Sikafloor®-150 Sikafloor®-151 Sikafloor®-156 Sikafloor®-161 Sikafloor®-1590	1–2 × 0.3–0.5 kg/m ²
	Wearing layer	Sikafloor®-381 filled with Quartz sand (0.1–0.3 mm)	1.8 kg/m ² per mm binder + quartz sand +10 °C to +15 °C: without filling +15 °C to +20 °C: 1 : 0.1 by weight (1.65 + 0.15 kg/m ²) +20 °C to +30 °C: 1 : 0.2 by weight (1.5 + 0.3 kg/m ²)

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 the Product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.

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

Relative Air Humidity	Maximum	80 % r.h.
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Dew Point	Beware of condensation. The substrate and uncured applied product must be at least +3 °C above the dew point to reduce the risk of condensation or blooming on the surface of the applied product. Low temperatures and high humidity conditions increase the probability of blooming.
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Substrate Temperature	Maximum	+30 °C
	Minimum	+10 °C

Substrate Moisture Content	Refer to the individual Product Data Sheet.
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Waiting Time / Overcoating	When using Sikafloor®-1590 refer to the individual Product Data Sheet for specific information on waiting time to overcoating. Before applying Sikafloor®-381 on the primer allow:		
	Temperature	Minimum	Maximum
	+10 °C	17 hours	4 days
	+20 °C	9 hours	2 days
	+30 °C	7 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.

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTS

Refer to the following method statements:

- Sika Method Statement — Evaluation and preparation of surfaces for flooring systems
- Sika Method Statement — Sikafloor® mixing and application

ECOLOGY, HEALTH AND SAFETY

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling.

Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

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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