

## SYSTEM DATA SHEET

# Sikafloor® MultiDur ES-23

Mechanically resistant, coloured flooring system

### PRODUCT DESCRIPTION

Sikafloor® MultiDur ES-23 is a finely textured, coloured, resin-based floor coating system. It provides a hard-wearing, seamless, low-maintenance glossy finish.

### USES

Sikafloor® MultiDur ES-23 installation works to be carried out only by Sika Approved Contractors. Please observe information given by Product Data Sheets.

Sikafloor® MultiDur ES-23 is used in industrial buildings such as:

- Chemical and processing facilities
- Manufacturing facilities and workshops
- Leisure and culture facilities such as museums and stadiums

### CHARACTERISTICS / ADVANTAGES

- Highly aesthetic appearance and finish
- Very good abrasion resistance
- Very good resistance to specific chemicals
- Very good yellowing resistance
- Very good mechanical resistance

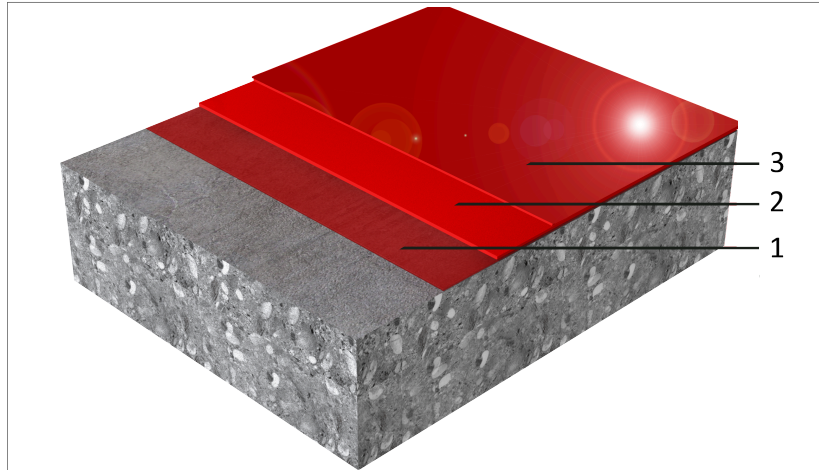
### APPROVALS / STANDARDS

- Slip resistance DIN 51130, Sikafloor® MultiDur ES-23, Roxeler, Certificate No. 020017-21-2

# SYSTEM INFORMATION

## System Structure

## Sikafloor® MultiDur ES-23



### SELF-SMOOTHING / RESIN SCREED

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®-263 SL N Sikafloor®-264 N
3. Top coat	Sikafloor®-316 + 2 % glass beads (90–150 µm)

Composition	Epoxy and polyurea based technology
Appearance	Lightly textured, 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 <sub>fl</sub> -s1	(EN 13501-1)
Skid / Slip Resistance	R 9	(DIN 51130)

## 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 <sup>2</sup>
	Wearing layer	1 × Sikafloor®-263 SL N or Sikafloor®-264 N filled up to 1:1 with quartz sand (0.1–0.3 mm) by weight depend- ing on temperature	~1.9 kg /m <sup>2</sup> per mm thickness
	Seal coat or top coat	1 × Sikafloor®-316 + 2 % glass beads (90–150 μ m) by weight	~ 0.07–0.1 kg/m <sup>2</sup> per layer

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	+15 °C

Relative Air Humidity	Maximum	80 % r.h.
-----------------------	---------	-----------

Dew Point	Refer to the individual Product Data Sheet.	
-----------	---	--

Substrate Temperature	Maximum	+30 °C
	Minimum	+15 °C

Substrate Moisture Content	Refer to the individual Product Data Sheet.	
----------------------------	---	--

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®-263 SL N or Sikafloor®-264 N on the primer layer allow:		

Temperature	Minimum	Maximum
+10 °C	17 hours	4 days
+20 °C	9 hours	48 hours
+30 °C	7 hours	24 hours

Before applying Sikafloor®-316 on Sikafloor®-263 SL N or Sikafloor®-264 N allow:

Temperature	Minimum	Maximum
+15 °C	18 hours	3 days
+20 °C	16 hours	48 hours
+30 °C	12 hours	24 hours

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
	+15 °C	18 hours	42 hours	10 days
	+20 °C	16 hours	36 hours	7 days
	+30 °C	12 hours	24 hours	5 days

## 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.

## APPLICATION INSTRUCTIONS

### APPLICATION

#### IMPORTANT

#### **Abrading the surface underneath the top coat**

Before applying each layer of top coat, the surface must be of uniformly matt with no gloss present.

1. Abrade the application surface with a 120 grit sandpaper until the surface turns matt.
2. Remove the resulting dust with industrial vacuuming equipment and solvent wiping.

#### IMPORTANT

#### **Protecting the material after application**

After application, protect the System from damp, condensation and direct water contact for at least 24 hours.

## 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.

#### SIKA IRELAND LIMITED

Ballymun Industrial Estate  
Ballymun  
Dublin 11, Ireland  
Tel: +353 1 862 0709  
Web: [www.sika.ie](http://www.sika.ie)  
Twitter: @Sikalreland



#### System Data Sheet

Sikafloor® MultiDur ES-23  
August 2024, Version 03.01  
020811900000000062

SikafloorMultiDurES-23-en-IE-(08-2024)-3-1.pdf

