

# SYSTEM DATA SHEET

## Sikafloor® MultiDur ES-12

### UNICOLOUR EPOXY ROLLER COAT FLOORING SYSTEM

#### DESCRIPTION

Sikafloor® MultiDur ES-12 is a solvent containing, coloured epoxy resin coating system for flooring applications.

#### USES

Sikafloor® MultiDur ES-12 may only be used by experienced professionals.

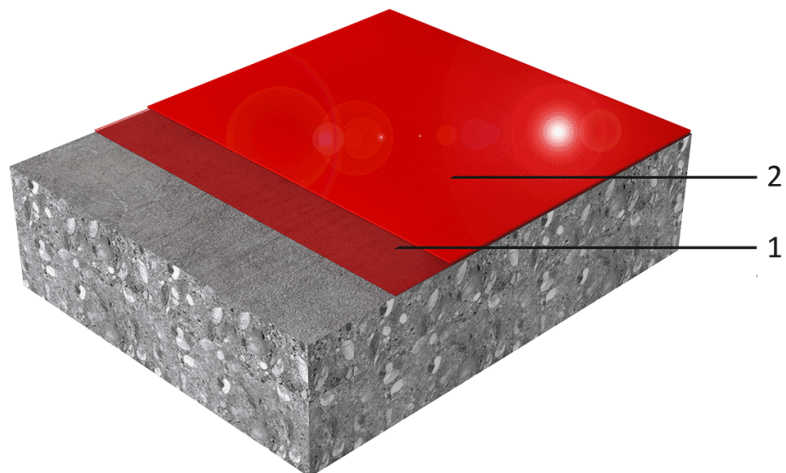
- Can be subjected to normal up to medium heavy mechanical and chemical loading
- For production areas, warehouses, car park decks, garages, etc.

#### CHARACTERISTICS / ADVANTAGES

- Good chemical and mechanical resistance
- Easy application

#### SYSTEM INFORMATION

##### System Structure



##### Sikafloor® MultiDur ES-12 (~ 0.2–0.3 mm)

1. Primer	Sikafloor®-2430 + 10–20 % Thinner K
2. Top coat	Sikafloor®-2430

##### Chemical base

Epoxy

<b>Appearance</b>	Gloss finish
<b>Colour</b>	Available in various colour shades.
<b>Nominal Thickness</b>	~ 0.2–0.3mm

## TECHNICAL INFORMATION

<b>Abrasion Resistance</b>	~88 mg (CS 10/1000/1000) (14 days / +23 °C) (DIN 53 109 Taber Abrader Test)	
<b>Chemical Resistance</b>	Please refer to the chemical resistance of Sikafloor®-2430	
<b>Thermal Resistance</b>	<b>Exposure*</b>	<b>Dry heat</b>
	Permanent	+50 °C
	Short-term max. 7 d	+80 °C
	Short-term max. 12 h	+100 °C
	Short-term moist/wet heat* up to +80 °C where exposure is only occasional (i.e. during steam cleaning etc.)	
	*No simultaneous chemical and mechanical exposure.	

## APPLICATION INFORMATION

<b>Consumption</b>	Sikafloor® MultiDur ES-12 system (~ 0.2–0.3 mm)			
	<b>Coating System</b>	<b>Product</b>	<b>Consumption</b>	
	Primer	1 x Sikafloor®-2430 + 10–20 % Thinner K	~ 0.15–0.2 kg/m <sup>2</sup>	
	Top coat	1-2 x Sikafloor®-2430	~ 0.3–0.5 kg/m <sup>2</sup> per layer	
<b>Product Temperature</b>	Please refer to the individual Product Data Sheets			
<b>Ambient Air Temperature</b>	+10 °C min. / +30 °C max.			
<b>Relative Air Humidity</b>	80 % r.h. max.			
<b>Dew Point</b>	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.			
<b>Substrate Temperature</b>	+10 °C min. / +30 °C max.			
<b>Substrate Moisture Content</b>	When performing application work with Sikafloor® MultiDur ES-12, the substrate moisture content must not exceed 4 % pbw measured by Tramex. Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).			
<b>Waiting Time / Overcoating</b>	Before applying Sikafloor®-2430 on Sikafloor®-2430 allow:			
	<b>Substrate temperature</b>	<b>Minimum</b>	<b>Maximum</b>	
	+10 °C	36 hours	4 days	
	+20 °C	24 hours	2 days	
	+30 °C	16 hours	1 day	
	Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.			
<b>Applied Product Ready for Use</b>	<b>Temperature</b>	<b>Foot traffic</b>	<b>Light traffic</b>	<b>Full cure</b>
	+10 °C	~ 36 hours	~ 5 days	~ 10 days
	+20 °C	~ 24 hours	~ 3 days	~ 10 days
	+30 °C	~ 16 hours	~ 2 days	~ 5 days

## PRODUCT INFORMATION

<b>Packaging</b>	Please refer to the individual Product Data Sheets
<b>Shelf life</b>	Please refer to the individual Product Data Sheets

## MAINTENANCE

### CLEANING

Please refer to the Method Statement Sikafloor®-Cleaning Regime

### FURTHER DOCUMENTS

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

### LIMITATIONS

- Do not apply Sikafloor® MultiDur ES-12 on substrates with rising moisture.
- Freshly applied Sikafloor® MultiDur ES-12 must be protected from damp, condensation and water for at least 24 hours.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- For exact colour matching, ensure the Sikafloor®-2430 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 imprints in the resin.
- If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO<sub>2</sub> and H<sub>2</sub>O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

### 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. 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.

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## 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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