

SYSTEM DATA SHEET

Sikafloor® DecoDur EM-21 Compact

Highly mechanical resistant, power float finished, coloured quartz flooring system

DESCRIPTION

Sikafloor® DecoDur EM-21 Compact is a highly mechanical resistant, decorative, coloured, low VOC, flooring system designed for indoor applications. Suitable for use in hot and tropical climatic conditions.

USES

Sikafloor® DecoDur EM-21 Compact may only be used by experienced professionals.

The System is used in the following commercial and public buildings and areas:

- Airports
- Schools and universities
- Healthcare facilities and hospitals
- Shopping malls and museums

Please note:

- The System may only be used for interior applications.

FEATURES

- Good resistance to abrasion
- Very good mechanical resistance
- Decorative design
- Low VOC and AMC emissions
- Low VOC content
- Seamless and hygienic

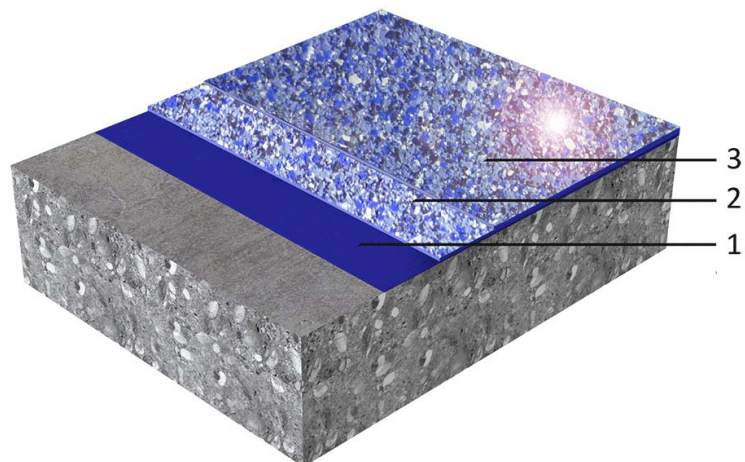
CERTIFICATES AND TEST REPORTS

- Fire Classification Report EN 13501-1, Ghent, No. CR 22-0346-01
- Slip resistance test DIN 51130, Roxeler, No. 020068-18-29

SYSTEM INFORMATION

System structure

Sikafloor® DecoDur EM-21 Compact



Layer	Product
1. Primer	Sikafloor®-151 or Sikafloor®-161 Lightly broadcasted with Sika® Quartz PU 0.3–1.2mm Contact Sika technical service for information on choosing the right primer for your project.
2. Wearing layer	Slurry of 1 part by weight Sika- floor®-169 + 1 part by weight Sika- floor® Compact
3. Broadcast	Broadcast to excess with Sika® Quartz PU 0.3–1.2mm and power- floated
4. Seal coat	Sikafloor®-169
5. Top coat	Sikafloor®-304 W

Composition	Epoxy
Appearance	Smooth or lightly textured finish
Nominal thickness	2 mm to 3 mm

TECHNICAL INFORMATION

Compressive strength	~80 N/mm ² (Cured 7 days at +23 °C)	(EN 13892-2)
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.	
Skid / slip resistance	Class R 9	(DIN 51130)

APPLICATION INFORMATION

Consumption	Layer	Product	Consumption
	Primer	Sikafloor®-151 or Sikafloor®-161 Lightly broadcasted with Sika® Quartz PU 0.3–1.2mm	1–2 × 0.3–0.5 kg/m ² (resin) 1.0 kg/m ² (broadcast)
	Wearing layer	Slurry of Sikafloor®-169 and Sikafloor® Compact mixed 1 : 1 by weight	1.5–1.7 kg/m ²
	Broadcast	Broadcast to excess with Sika® Quartz PU 0.3–1.2 mm	3.0–4.0 kg/m ²
	Seal coat	Sikafloor®-169	1 × 0.25–0.3 kg/m ²
	Top coat	Sikafloor®-304 W	2 × 0.07–0.09 kg/m ² diluted 20 % with water

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.
Dew point	Refer to the individual Product Data Sheet.	
Substrate temperature	Maximum	+30 °C
	Minimum	+10 °C
Substrate moisture content	Refer to the individual Product Data Sheet.	
Waiting time to overcoating	When using Sikafloor®-1590 refer to the individual Product Data Sheet for specific information on waiting time to overcoating.	
	Before applying Sikafloor®-169 on the primer allow:	
	Temperature	Minimum
	+10 °C	17 hours
	+20 °C	9 hours
	+30 °C	7 hours
	Maximum	Maximum
	+10 °C	4 days
	+20 °C	48 hours
	+30 °C	24 hours
	Before applying Sikafloor®-304 W on Sikafloor®-169 allow:	
	Temperature	Minimum
	+10 °C	45 hours
	+20 °C	36 hours
	+30 °C	24 hours
	Maximum	Maximum
	+10 °C	4 days
	+20 °C	3 days
	+30 °C	48 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
	+10 °C	30 hours
	+20 °C	16 hours
	+30 °C	12 hours
	Light traffic	Full cure
	+10 °C	48 hours
	+20 °C	24 hours
	+30 °C	18 hours
		3 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 Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTATION

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

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

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 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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ISO 9001, 14001, 45001 – SGS:
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- Sika International Chemicals LLC
- Sika Gulf B.S.C. (c)
ISO 9001, 14001 – SGS:
- Sika Saudi Arabia Limited
ISO 9001, 14001 – TÜV:
- Sika UAE LLC (Branch)
ISO 9001 – SGS:
- Sika MB LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



System Data Sheet

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