

SYSTEM DATA SHEET

Sikafloor® MultiDur ES-24 EQ

SMOOTH UNICOLOUR CLEAN ROOM CERTIFIED EPOXY FLOOR COV- ERING

DESCRIPTION

Sikafloor® MultiDur ES-24 EQ is a smooth coloured low VOC/AMC emission rigid system for flooring applications

USES

Sikafloor® MultiDur ES-24 EQ may only be used by experienced professionals.

- Especially designed for the use in cleanroom environment, where low VOC/AMC and particle emissions are mandatory.
- Also suitable as a hard wearing coat for many industries, such as automotive, pharmaceutical, storage facilities and warehouses.
- Suitable for residential areas

CHARACTERISTICS / ADVANTAGES

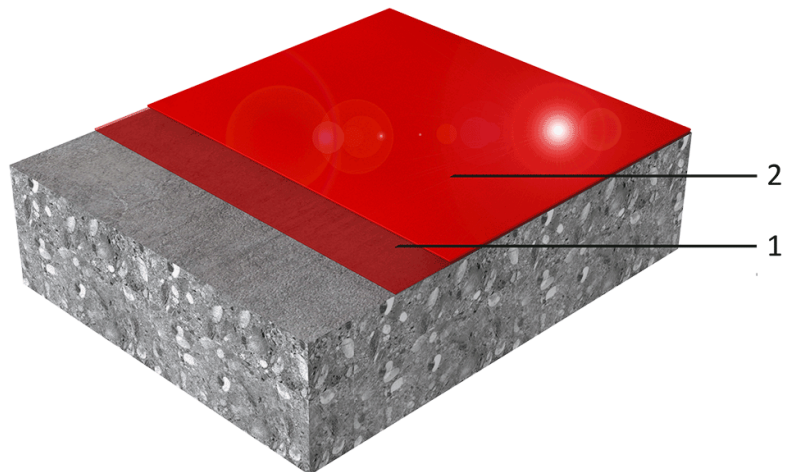
- 0 % VOC according to Decopaint Directive 2004/42 EG
- Bishenol A and benzylalcohol free system
- Dodecylphenol free
- Good chemical and mechanical resistance
- Easy to clean
- Liquid proof

APPROVALS / STANDARDS

- Eurofins Emission tested according to the AgBB-scheme and guidelines of the DiBt (AgBB – Committee for Health-related Evaluation of Building Products, DiBt – German Institute for Building Technology). Sampling, testing and evaluation were performed according to ISO-16000, Report No G18792B.
- Eurofins Emission tested according to French Label, Report No. G18792C.
- Fire classification in accordance with DIN EN 13501-1: 2010, class Bfl-S1, Report-No. KB-Hoch-141428, Germany, November, 2014
- Particle emission certificate Sikafloor-721 CSM Statement of Qualification - ISO 14644-1, class 4 - Report No.SI 1403695
- Outgassing emission certificate Sikafloor-721 CSM Statement of Qualification - ISO 14644-8, class -7.4 - Report No. SI 1403695.
- Excellent biological Resistance in accordance with ISO 846, CSM Report No. SI 1403695.
- Fluorescent test contamination (Riboflavin test) : very good, CSM Statement of Qualification , Report No.SI 1403695

SYSTEM INFORMATION

System Structure



1. Primer	Sikafloor®-701
2. Wearing Coat	Sikafloor®-721

Chemical base	Epoxy
Appearance	Smooth gloss finish
Colour	Almost unlimited choice of colour shades.
Nominal Thickness	~1.5–2.0 mm
Volatile organic compound (VOC) content	20 g/l (SCAQMD Method 304-91)

TECHNICAL INFORMATION

Shore D Hardness	~77 (14 days / +23 °C)	(DIN 53 505)						
Abrasion Resistance	30 mg (CS 10/1000/1000) (7 days / +23 °C)	(DIN 53 109 Taber Abraser Test)						
Resistance to Impact	~8 Nm (14 days / +23 °C)	(ISO 6272)						
Compressive Strength	~75 N/mm ² (Mortar, 28 days / +23 °C)	(EN 13892-2)						
Tensile Strength	~20 N/mm ² (Mortar, 14 days / +23 °C)	(EN 13892-2)						
Reaction to Fire	Bfl-S1	(DIN EN 13501-1)						
Chemical Resistance	Resistant to many chemicals. Contact Sika technical service for specific information.							
Thermal Resistance	<table border="1"> <thead> <tr> <th>Exposure*</th> <th>Dry heat</th> </tr> </thead> <tbody> <tr> <td>Permanent</td> <td>+50 °C</td> </tr> <tr> <td>Short-term max. 7 d</td> <td>+80 °C</td> </tr> </tbody> </table> <p>Short-term moist/wet heat* up to +80 °C where exposure is only occasional (steam cleaning etc.). *No simultaneous chemical and mechanical exposure.</p>	Exposure*	Dry heat	Permanent	+50 °C	Short-term max. 7 d	+80 °C	
Exposure*	Dry heat							
Permanent	+50 °C							
Short-term max. 7 d	+80 °C							
Microbiological Resistance	Excellent biological Resistance	(ISO 846)						
Coefficient of Friction	μ= 0.10	(DIN 51131)						
Skid / Slip Resistance	R9	(DIN 51130)						

APPLICATION INFORMATION

Consumption	Sikafloor® MultiDur ES-24 EQ system (~1.5–2 mm)		
	Coating System	Product	Consumption
	Primer	1 x Sikafloor®-701	~0.3–0.5 kg/m ²
	Wearing coat	Sikafloor®-721 filled with quartz sand 0.1–0.3mm	Maximum 2.5 kg/m ² Binder + quartz sand 15–20 °C: 1 : 0.3 pbw (1.9 + 0.6 kg/m ²) 20–30 °C: 1 : 0.4 pbw (1.8 + 0.7 kg/m ²)
Product Temperature	Please refer to the individual Product Data Sheet		
Ambient Air Temperature	+10 °C min. / +30 °C max.		
Relative Air Humidity	80 % r.h. max.		
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.		
Substrate Temperature	+10 °C min. / +30 °C max.		
Substrate Moisture Content	When performing application work with Sikafloor® MultiDur ES-24 EQ, 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).		
Waiting Time / Overcoating	Before applying Sikafloor®-721 on Sikafloor®-701 allow:		
	Substrate temperature	Minimum	Maximum
	+10 °C	60 hours	4 days
	+20 °C	24 hours	2 days
	+30 °C	16 hours	1 day
Applied Product Ready for Use	Temperature	Foot traffic	Light traffic
	+10 °C	~ 72 hours	~ 6 days
	+20 °C	~ 24 hours	~ 4 days
	+30 °C	~ 18 hours	~ 2 days
			Full cure
			~ 10 days
			~ 7 days
			~ 5 days

PRODUCT INFORMATION

Packaging	Please refer to the individual Product Data Sheets
Shelf life	Please refer to the individual Product Data Sheets
Storage conditions	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-24 EQ on substrates with rising moisture.
- Freshly applied Sikafloor® MultiDur ES-24 EQ 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®-721 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 CO₂ and H₂O 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.

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.

Sika Hellas ABEE
15 Protomagias Str.
14568 Kryoneri
Attica-Greece
Tel.: +30 210 8160 600
Fax: +30 210 8160 606
www.sika.gr | sika@gr.sika.com



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