

BUILDING TRUST

Provides reliable and long-lasting ESD protection

Seamless surface requires minimal cleaning and

Functional finish with outstanding appearance

CERTIFICATES AND TEST REPORTS

Good resistance to specific chemicals

Very good mechanical resistance

RISE Institute, No. ESD-21-0002

versity, Report No. 20-1069-03

Low Airborne Molecular Contaminants (AMC) emis-

Approval for ESD protective products acc. IEC 61340,

Fire classification report, EN 13501-1, Ghent Uni-

SYSTEM DATA SHEET

Sikafloor[®] MultiDur ES-56 ESD

Smooth, conductive, epoxy ESD flooring system

DESCRIPTION

Sikafloor[®] MultiDur ES-56 ESD is a smooth finish, epoxy ESD flooring system. The system is designed to dissipate electrostatic charges (ESD) and protect sensitive equipment in electrostatic protected areas (EPA).

USES

Sikafloor[®] MultiDur ES-56 ESD is used in industrial buildings such as:

- Pharmaceutical facilities
- Automotive facilities
- Electronic facilities and data centres
- Please note:
- The System may only be used by experienced professionals.
- The System may only be used for interior applications.

SYSTEM INFORMATION

System structure

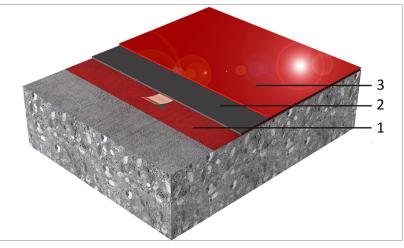
Sikafloor[®] MultiDur ES-56 ESD

FEATURES

maintenance

Low VOC emissions

sions



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		Layer		Product	Product	
	1. 2.	Primer		Sikafloor®-150 Sikafloor®-151		
				information o	Technical Service for on choosing the right our project	
		Conductive primer		primer for you Sikafloor®-220 Sikafloor® Cou	0 W Conductive	
	3.	Wearing layer		Sikafloor [®] -23		
Composition	Ероху					
Appearance	Smooth, gloss finish					
Colour	Available in the approximate colours RAL 1000, RAL 1001, RAL 1014, RAL 1019, RAL 3012, RAL 5012, RAL 5024, RAL 6000, RAL 6010, RAL 6020, RAL 6021, RAL 6027, RAL 6033, RAL 6034, RAL 7001 RAL 7005, RAL 7011, RAL 7015, RAL 7021, RAL 7024, RAL 7030, RAL 7032, RAL 7035, RAL 7036, RAL 7037, RAL 7038, RAL 7040, RAL 7042, RAL 7043, RAL 7045, RAL 7046, RAL 7047, RAL 9002, NCS S 3500-N					
Nominal thickness	1.5 mm to 2 mm					
TECHNICAL INFORMATION						
Tensile adhesion strength	≥ 1.5	5 MPa			(EN 1542)	
Reaction to fire	Class B _{fl} -s1			(EN 13501-1)		
Electrostatic behaviour	$\begin{array}{l} \mbox{Resistance to ground} & $R_{\rm G} < 10^9 \ \Omega$ \\ \mbox{Typical average resistance} & $R_{\rm G} < 10^5 - 10^6 \ \Omega$ \\ \mbox{to ground} & $R_{\rm G} < 10^5 - 10^6 \ \Omega$ \\ \end{array}$				(IEC 61340-4-1)	
			< 100 V R _G < 10 ⁹	0	(IEC 61340-4-5)	
	ESD MEASUREMENT CONDITIONS AN All measurement values for the system (except those referring to proof stated lowing equipment and ambient condit Condition or Equipment Size of ESD-footwear Test person weight Ambient conditions Measuring device for measuring res- istance to ground Surface resistance probe			m stated in the System Data Sheet ments) were measured using the fol- itions: Specification 42 (EU) (UK: 8; US: 8.5) 90 kg +23 °C and 50 % relative humidity Metriso 2000 or 3000 (Warmbier) or comparable Carbon Rubber electrode. Weight:		
	Rubber pad hardness			2.50 kg Shore A (60 ±10)		
	Measuring device for measuring			Walking Test Kit WT 5000 (Warmbi- er) or comparable		
	IMPORTANT ESD footwear requirements The ESD shoes used in the EPA must have a resistance of < 5 MOhm ac- cording to IEC 61340-4-3 at climate class 1 (12 % relative humidity and +23 °C). In order to achieve charges of < 30 volts of human body charge during the walking test (at 12 % relative humidity and +23 °C), we recommend us- ing the following ESD shoes: Weeger ESD clog, art. 48512-30, www.schuh- weeger.de. Note: Measurement results can be affected by ESD clothing, ambient conditions, measurement equipment, cleanliness of the floor and the test personnel.					

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APPLICATION INFORMATION

Consumption	Layer	Product		Consumption			
	Primer			1-2 × 0.3–0.5 kg/m ²			
	Conductive prime			0.08–0.10 kg/m ² 1 earthing point per 200–300 m ² , minimum 2 per room.			
	Wearing layer			Maximum 2.5 kg/m ²			
	Note: With thinner layers, the chemical and mechanical resistance and the flow properties can be reduced.						
Ambient air temperature	Maximum		+30 °C	+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 to overcoating	For the waiting time to overcoating of the primer, refer to the individual Product Data Sheet. Before applying Sikafloor®-2350 ESD on Sikafloor®-220 W Conductive, al- low:						
	Temperature +15 °C	<u>Minimum</u> ~26 hours		_ <mark>Maximum</mark> ~7 days			
	+13°C +20°C	~17 hours		~5 days			
	+30 °C	~12 hours		~4 days			
	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	c Full cure			
	+15 °C	~48 hours	~3 days	~7 days			
	+20 °C	~24 hours	<u>~48 hours</u> ~36 hours	~4 days			
	+30 °C	+30 °C ~16 hours		~3 days			
	Note: Times apply when the last layer of the system has been applied. Times are affected by changing ambient conditions, particularly temperat- ure and relative humidity.						

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.

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

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.

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APPLICATION INSTRUCTIONS

APPLICATION

ESD CONDUCTIVITY MEASUREMENTS Recommended number of conductivity measurements is specified in the following table:

Ready applied area	Number of measurements			
< 10 m ²	6			
$\geq 10 \text{ m}^2 \text{ and } < 100 \text{ m}^2$	10 to 20			
\ge 100 m ² and < 1000 m ²	50			
\ge 1000 m ² and < 5000 m ²	100			

If the measurements yield values that are outside of the agreed specification, follow these steps:

 Carry out one additional measurement within a radius of approximately 30 cm around the original measuring point.

If the value of the new measurement meets the agreed specification, the original measurement can be disregarded.

If the value of the new measurement does not meet the agreed specification, repeat the measurement described above until the fulfilment of the requirements have been verified.

If the requirements cannot be verified, contact Sika Technical Services.

INSTALLATION OF EARTHING POINTS

Refer to Sika Method Statement: Sika Method Statement — Sikafloor[®] mixing and application

Number of earthing connections per room: Minimum of 2 earthing connections. The optimum number of earthing connections depends on the local conditions and must be specified on drawings or other contract documentation.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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