BUILDING TRUST

SYSTEM DATA SHEET

Sikafloor® DecoDur EB-26 Quartz ESD

Conductive slip resistant epoxy flooring system

PRODUCT DESCRIPTION

Sikafloor® DecoDur EB-26 Quartz ESD is a coloured, conductive resin based epoxy flooring system. It provides a hard wearing, seamless, low maintenance, slip resistant finish.

USES

Sikafloor® DecoDur EB-26 Quartz ESD installation works to be carried out only by Sika Approved Contractors. Please observe information given by Product Data Sheets.

The system can be used in industrial buildings such as:
- Airports
- Pharmaceutical facilities
- Electronic facilities and data centres
- Manufacturing facilities and workshops
- Food and Beverage facilities

Please note:
- The System may only be used for interior applications.
- The System may only be used by experienced professionals.

CHARACTERISTICS / ADVANTAGES

- Provides reliable and long lasting ESD protection
- Functional finish with outstanding appearance
- Decorative design
- Textured gloss finish
- High mechanical resistance

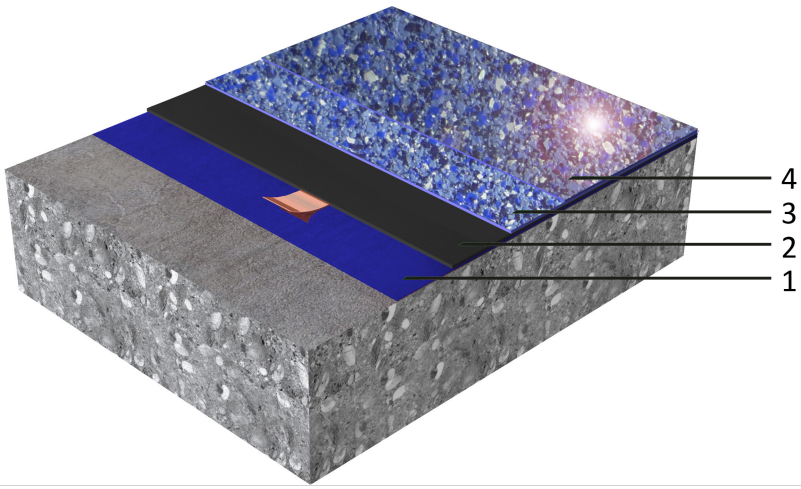
APPROVALS / STANDARDS

- Fire classification report, EN 13501-1, Ghent University, Report No. CR 21-0127-01
- Test of floor, IEC 61340, RISE Institute, Report No. P105613 A, rev 1
- Approval for ESD protective products, IEC 61340-5-1, RISE Institute, No. ESD-20-0022, rev 1
- Slip resistance, DIN 51130, Roxeler, Certificate No. 020017-21-1

SYSTEM INFORMATION

System Structure

Sikafloor® DecoDur EB-26 Quartz ESD (~2–3 mm)



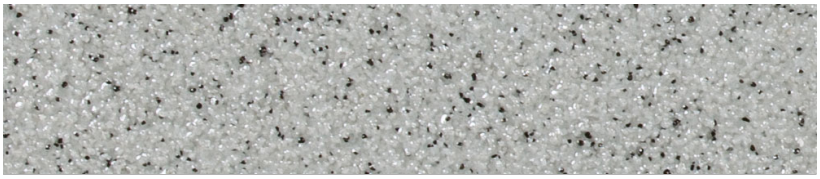
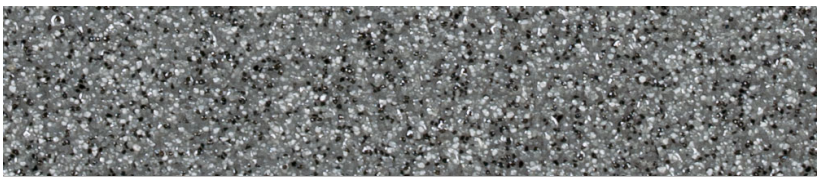
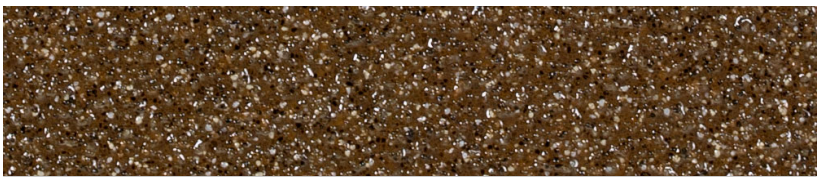
Layer	Product
1. Primer or scratch coat	Sikafloor®-150 Sikafloor®-151 Sikafloor®-156 Sikafloor®-161 Sikafloor®-144 Sikafloor®-701
Levelling (if required)	Sikafloor®-150 Sikafloor®-151 Sikafloor®-156 Sikafloor®-161 levelling mortar
2. Conductive primer + earthing connection	Sikafloor®-220 W Conductive + Sikafloor® Conductive Set
3. Conductive wearing layer	Sikafloor®-169 ESD Broadcast in excess Sika® PU Quartz Conductive 0.3–0.8 or 0.6–1.2 mm
4. Top coat	Sikafloor®-169 ESD

Composition

Epoxy

Appearance

Final floor appearance	Glossy orange peel

Colour	Iceberg:  Noblesse:  Granit:  Note: When the system is exposed to direct sunlight, there may be some discolouration and colour variation. This has no influence on the function and performance of the floor finish.
Nominal thickness	~2 mm to 3 mm

TECHNICAL INFORMATION

Reaction to Fire	Class B_{fl}-s1		(EN 13501-1)
Thermal Resistance	Short-term, maximum 7 days	+60 °C	
	IMPORTANT **No simultaneous mechanical and chemical strain** While the system is exposed to temperatures up to +60 °C, do not also subject it to chemical and/or mechanical strain, as it may cause damage to the system.		
Skid / Slip Resistance	R 11; V 4		(DIN 51130)
	Sliding friction coefficient μ = 0.52		(DIN 51131)
Electrostatic Behaviour	Resistance to ground	$R_G < 10^9$ Ω This product fulfils the requirements of ATEX 137	(IEC 61340-4-1)
	Typical average resistance to ground	$R_G \leq 10^5$ Ω to 10^6 Ω	(EN 1081)
	Body voltage generation	< 100 V	(IEC 61340-4-5)
	Note: Measurement results can be affected by ESD clothing, ambient conditions, measurement equipment, cleanliness of the floor and the test personnel. **ESD MEASUREMENT CONDITIONS AND SPECIFICATIONS** All measurement values for the system stated in the System Data Sheet (except those referring to proof statements) were measured using the following equipment and ambient conditions:		

Condition or Equipment	Specification
Size of ESD-footwear	42 (EU) (UK: 8; US: 8.5)
Test person weight	90 kg
Ambient conditions	+23 °C / 50 %
Measuring device for measuring resistance to ground	Metriso 2000 or 3000 (Warmbier) or comparable
Surface resistance probe	Carbon Rubber electrode. Weight: 2.50 kg
Rubber pad hardness	Shore A 60 (±10)
Measuring device for measuring body voltage generation	Walking Test Kit WT 5000 (Warmbier) or comparable

APPLICATION INFORMATION

Consumption

Conductive decorative slip resistant epoxy quartz finish flooring system

Layer	Product	Consumption
Primer or scratch coat	1 × Sikafloor®-150 Sikafloor®-151 Sikafloor®-156 Sikafloor®-161 Sikafloor®-144 Sikafloor®-701	~0.3 kg/m² to 0.5 kg/m²
Levelling (if required)	Sikafloor®-150 Sikafloor®-151 Sikafloor®-156 Sikafloor®-161	Refer to the individual Product Data Sheet
Conductive primer + earthing connection	Sikafloor®-220 W Conductive + Sikafloor® Conductive Set	1 × 0.08–0.10 kg/m² 1 earthing point per ~200–300 m². 2 per room minimum.
Conductive wearing layer	1 × Sikafloor®-169 ESD	1 × 0.5 kg/m²
Broadcast	Broadcast in excess Sika® PU Quartz Conductive 0.3–0.8 or 0.6–1.2 mm	~3.5 kg/m²
Top coat	1 × Sikafloor®-169 ESD	1 × ~0.5 kg/m²

Note: These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.

Ambient Air Temperature

Minimum	+10 °C
Maximum	+30 °C

Relative Air Humidity

80 % r.h. max.

Dew Point

Beware of condensation. The substrate and uncured applied product must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the surface of the applied product. Low temperatures and high humidity conditions increase the probability of blooming.

Substrate Temperature

Minimum	+10 °C
Maximum	+30 °C

Substrate Moisture Content

< 4 % parts by weight (Sika® Tramex moisture meter)
No rising moisture (ASTM D4263, polyethylene sheet)
The substrate must be visibly dry with no standing water.

Waiting Time / Overcoating

Conductive decorative slip resistant epoxy quartz finish flooring system
Before applying Sikafloor®-220 W Conductive on Sikafloor®-150/ -151/ -156/ -161 allow:

Substrate temperature	Minimum	Maximum
+10 °C	~24 hours	~4 days
+20 °C	~12 hours	~48 hours
+30 °C	~8 hours	~24 hours

Before applying Sikafloor®-169 ESD on Sikafloor®-220 W Conductive allow:

Substrate temperature	Minimum	Maximum
+10 °C	~26 hours	~7 days
+20 °C	~17 hours	~5 days
+30 °C	~12 hours	~4 days

Before applying Sikafloor®-169 ESD on Sika PU Quartz Conductive 0.3–0.8 and Sikafloor®-169 ESD allow:

Substrate temperature	Minimum	Maximum
+10 °C	~45 hours	~4 days
+20 °C	~36 hours	~3 days
+30 °C	~24 hours	~48 hours

Note: Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

Applied Product Ready for Use

Conductive decorative slip resistant epoxy quartz finish flooring system

Temperature	Foot traffic	Light traffic	Full cure
+10 °C	~36 hours	~5 days	~10 days
+20 °C	~12 hours	~3 days	~7 days
+30 °C	~8 hours	~48 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

- Sika® Method Statement: Evaluation and preparation of surfaces for flooring systems
- Sika® Method Statement: Mixing and application of flooring systems
- Sika® Method statement: Sikafloor® DecoDur EB-26 Quartz ESD

ECOLOGY, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887

APPLICATION INSTRUCTIONS

APPLICATION

INSTALLATION OF EARTHING POINTS
Refer to Sika Method Statement: Mixing & Application of Flooring Systems.
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.

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

Ready applied area	Number of measurements
< 10 m²	6
≥ 10 m² and < 100 m²	10 to 20
≥ 100 m² and < 1000 m²	50
≥ 1000 m² and < 5000 m²	100

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

1. 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, you may repeat the measurement described above, until the fulfilment of the requirements have been verified. If the requirements cannot be verified, contact Sika technical services.

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.

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