

BUILDING TRUST

SYSTEM DATA SHEET

Sikafloor[®] MultiFlex PS-32 ESD

Smooth low VOC polyurethane ESD floor system

DESCRIPTION

Sikafloor[®] MultiFlex PS-32 ESD is a polyurethane, coloured, low VOC emission, conductive, resin based floor coating system. It provides a hard-wearing, seamless, chemical resistant, tough-elastic, crack bridging, low maintenance, smooth matt finish. For industrial applications. Thickness ~1,5–2,0 mm. Internal use.

USES

Sikafloor[®] MultiFlex PS-32 ESD may only be used by experienced professionals.

- Dissipative coloured indoor system for electrostatic protected areas (EPA)
- On concrete and cementitious screeds for industrial applications e.g. clean rooms in the electronics industry, microbiology/microchemistry sectors, production plants in the automobile industry etc.
- Particularly suitable for indoor areas with requirements for the lowest electrostatic charge (low BVG (Body Voltage Generation)) and dissipative surface

CHARACTERISTICS / ADVANTAGES

- Very low VOC emissions
- Water-based top coat
- Easy to apply
- Easy to refurbish, ESD topcoat can be recoated
- Low odour
- Good UV resistance, non-yellowing
- Easy to clean
- Conforms to the requirements of ANSI/ESD S20.20 and IEC 61340-5-1
- Matt surface finish

SUSTAINABILITY

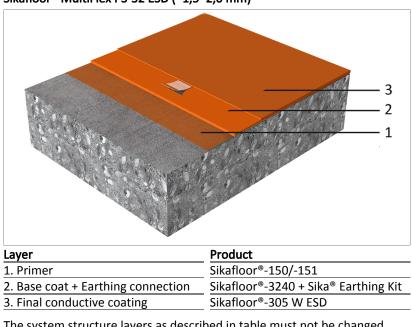
 Conformity with LEED v2009 IEQc 4.2: Low-Emitting Materials - Paints and Coatings - Sikafloor[®]-305 W ESD.

APPROVALS / CERTIFICATES

- CE Marking and Declaration of Performance to EN 1504-2 - Surface protection product for concrete -Coating
- CE Marking and Declaration of Performance to EN 13813 - Resin screed material for internal use in buildings

SYSTEM DATA SHEET Sikafloor® MultiFlex PS-32 ESD May 2022, Version 01.01 02081290000000083 System structure

Sikafloor[®] MultiFlex PS-32 ESD (~1,5–2,0 mm)



| Nominal thickness | ~1,5–2,0 mm |
|-------------------|--|
| Appearance | Smooth matt finish |
| Composition | Polyurethane |
| | The system structure layers as described in table must not be changed. |

TECHNICAL INFORMATION

| Tensile strength | ~14 N/mm² (14 days/+2 | 3 °C/50 % r.h.) | (DIN EN ISO 527-2) | |
|-----------------------------|---|--|----------------------------------|--|
| Tensile adhesion strength | > 1,5 N/mm² | | (ISO 4624) | |
| Chemical resistance | Resistant to many chem information. | Resistant to many chemicals. Contact Sika Technical Services for additiona information. | | |
| Temperature resistance | Exposure* | Dry hea | : | |
| | Permanent | +50 °C | C | |
| | Short-term max. 7 days | +80 °C | | |
| USGBC LEED Rating | Sikafloor [®] -305 W ESD co | * No simultaneous chemical and mechanical exposure. Sikafloor®-305 W ESD conforms to the requirements of LEED EQ Credit 4 Low-Emitting Materials: Paints & Coatings. Reference Test Method 304: | | |
| | | | | |
| Electrostatic behaviour | | R _a < 10 ⁹ Ω | (IEC 61340-4-1) | |
| Electrostatic behaviour | Resistance to ground ¹ Typical average resist- ance to ground ² | $\frac{R_{g} < 10^{9} \Omega}{R_{g} < \sim 10^{5} - 10^{6} \Omega}$ | (IEC 61340-4-1) (DIN EN 1081) | |
| Electrostatic behaviour | Resistance to ground ¹ Typical average resist- | 0 | | |

equipment.





BUILDING TRUST

APPLICATION INFORMATION

| Consumption | Layer | Product | Consumption | | |
|-----------------------------|---|--|--|--|--|
| | 1. Primer | Sikafloor®-150/-151 | 1–2 × ~0,3–0,5 kg/m² | | |
| | 2. Levelling (if required) | Sikafloor [®] -150/-151 lev- elling mortar | Refer to PDS of Sika- floor®-150/-151 | | |
| | 3. Base coat | Sikafloor [®] -3240 | ~1,8 kg/m²/layer (~1 mm thickness) | | |
| | 4. Earthing connection | Sika® Earthing Kit | 1 earthing point per ap- prox. 200–300 m ² , min. 2 per room. | | |
| | 5. Final conductive coating | Sikafloor [®] -305 W ESD | 1–2 × 0,18 – 0,2 kg/m²/layer | | |
| | due to surface porosity, When used in high wear Sikafloor®-305 W ESD im coating. Lower consumption can surface structure. Higher | These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc. When used in high wear conditions, e.g. castor chairs, a second layer of Sikafloor®-305 W ESD improves the mechanical properties of the final coating. Lower consumption can cause roller marks, gloss differences and irregular surface structure. Higher consumption results in water retention and can cause pigment floatation as well as unsatisfactory conductivity. | | | |
| Material temperature | +10 °C min. / +30 °C max | +10 °C min. / +30 °C max. | | | |
| Ambient air temperature | +10 °C min. / +30 °C max | +10 °C min. / +30 °C max. | | | |
| Relative air humidity | 80 % max | | | | |
| Dew point | The substrate and uncur | Beware of condensation. The substrate and uncured applied floor material 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 | +10 °C min. / +30 °C max. | | | |
| Substrate moisture content | ture content of \leq 4 % (ch | 32 ESD can be installed on necked by Tramex) with no sibly dry and have a minin | o rising moisture. The | | |
| Waiting time to overcoating | Before applying Sikafloo | r [®] -3240 on Sikafloor [®] -150 |)/-151 allow: | | |
| | Substrate temperature | Minimum | Maximum | | |
| | +10 °C | 24 hours | 4 days | | |
| | +20 °C | 12 hours | 2 days | | |
| | +30 °C | 8 hours | 1 days | | |
| | Before applying Sikafloo | Before applying Sikafloor [®] -305 W ESD on Sikafloor [®] -3240 allow: | | | |
| | Substrate temperature | Minimum | Maximum | | |
| | +10 °C | 24 hours | 72 hours | | |
| | +20 °C | 12 hours | 48 hours | | |
| | +30 °C | 8 hours | 36 hours | | |
| | | Before applying Sikafloor [®] -305 W ESD on Sikafloor [®] -305 W ESD allow: | | | |
| | Substrate temperature | Minimum | Maximum | | |
| | +10 °C | 48 hours | 10 days | | |
| | +20 °C | 24 hours | 8 days | | |
| | +30 °C | 16 hours | 7 days | | |
| | | Times are approximate and will be affected by changing ambient condi- tions particularly temperature and relative humidity. | | | |

SYSTEM DATA SHEET Sikafloor® MultiFlex PS-32 ESD May 2022, Version 01.01 02081290000000083



3/5

| Applied product ready for use | Temperature | Foot traffic | Light traffic | Full cure |
|-------------------------------|----------------------------|-----------------|-----------------------|------------------|
| | +10 °C | ~ 48 hours | ~ 5 days | ~ 10 days |
| | +20 °C | ~ 24 hours | ~ 3 days | ~ 8 days |
| | +30 °C | ~ 16 hours | ~ 2 days | ~ 7 days |
| | Note: Times are conditions | approximate and | will be affected by o | changing ambient |

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 INFORMATION

- Sika[®] Method Statement: Sikafloor[®]-Cleaning Regime
- Sika[®] Method Statement: Mixing & Applications of Flooring Systems
- Sika[®] Method Statement: Evaluation and Preparation of Surfaces for Flooring Systems
- Sika[®] Method Statement: Sikafloor[®]-305 W ESD
- Individual Product Data Sheets within the flooring system

IMPORTANT CONSIDERATIONS

- Do not apply Sikafloor[®] MultiFlex PS-32 ESD on substrates with rising moisture.
- After application, all the products must be protected from damp, condensation and water for at least 24 hours. Uncured material reacts in contact with water (foaming). During application care must be taken that no 'sweat' drops into the fresh Sikafloor[®] MultiFlex PS-32 ESD, wear head and wrist bands.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- Sikafloor[®]-305 W ESD must be diluted with 10 % water.
- Apply Sikafloor[®]-305 W ESD only to tack free Sikafloor-3240 resin.
- Ensure adequate ventilation during application and drying especially at temperatures < +13 °C, otherwise the reaction and drying processes may be affected.
- If the floor is exposed to mechanical and / or chemical loads, the conductivity must be controlled regularly. In case of wear and tear, Sikafloor®-305 W ESD must be refreshed. This must be coordinated with the authorised ESD-representative or equivalent.
- For exact colour matching, ensure the Sikafloor[®] MultiFlex PS-32 ESD in each area is applied from the same control batch numbers.
- Do not apply on substrates with a slope > 1 %.
- Under certain conditions, under floor heating or high ambient temperatures combined with high point loading, may lead to indentations 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.
- Sika does not assume any liability for possible changes in the composition of the recommended

SYSTEM DATA SHEET

Sikafloor® MultiFlex PS-32 ESD May 2022, Version 01.01 02081290000000083 cleaning- and maintenance agents and their effects on the floor characteristics.

- Measurement results can be affected by ESD clothing, ambient conditions, measurement equipment, cleanliness of the floor and test personnel.
- Rubber tyres may produce dark marks on the Sikafloor®-305 W ESD from plasticiser migration.
- If their are increased demands on the cleanability, Sikafloor®-305 W ESD can be over coated with the static dissipative floor polish "Jontec ESD" or "Jontec Destat" from Diversey Care or equivalent. Refer to the cleaning regime of Sikafloor®-305 W ESD.

All measurement values for the Sikafloor[®] MultiFlex PS-32 ESD system stated in the System Data Sheet (except those referring to proof statements) were measured under the following conditions:

| Size of ESD-footwear: | 42 (EU) (UK: 8; US: 8,5) |
|---------------------------|--------------------------|
| Weight test person: | 90 kg |
| Ambient conditions: | +23 °C/50 % |
| Measurement device for | Metriso 2000 or 3000 |
| the Resistance to Ground: | (Warmbier) or comparable |
| Surface resistance probe: | Carbon Rubber electrode. |
| | Weight: 2,50 kg |
| Rubber pad hardness: | Shore A 60 (± 10) |
| | |

The number of conductivity measurements is recommended in the table below:

| Ready applied area | Number of measurements |
|-----------------------|------------------------|
| <10 m ² | 6 measurements |
| <100 m ² | 10–20 measurements |
| <1000 m ² | 50 measurements |
| < 5000 m ² | 100 measurements |

If values are lower/higher than required, additional measurements have to be carried out, ~30 cm around the point where the faulty readings are located. If the re-measured values are in accordance with the requirements, the total area is acceptable. Installation of earthing points: Refer to Sika® Method Statement: Mixing & Applications of Flooring Systems. Numbers of earth connections: Per room at least 2 earthing points. The optimum number of earth connections depends on the local conditions and must be specified using available drawings.



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.

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 guestion 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.

Sika Danmark A/S Hirsemarken 5 3520 Farum Tlf. +45 48 18 85 85 www.sika.dk



SYSTEM DATA SHEET Sikafloor® MultiFlex PS-32 ESD May 2022, Version 01.01 02081290000000083 SikafloorMultiFlexPS-32ESD-en-DK-(05-2022)-1-1.pdf



BUILDING TRUST