BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-3150 ESD

High wear-resistant aliphatic polyurethane conductive seal coat

DESCRIPTION

Sikafloor®-3150 ESD is a four parts, high solids, low voc, excellent abrasion resistant and conductive polyurethane thin coating.

USES

- Used in conjunction with Sika's self-leveling conductive surface layer, it dissipates static electricity and provides excellent wear resistance and protection.
- Particularly suitable for areas with requirements for a low electrostatic charge(Body-voltage) and dissipative surface.
- Typical applications include industries that process, assemble, install, package, test or transport, such as clean room, pharmaceutical, automotive industries etc.

CHARACTERISTICS / ADVANTAGES

- Dissipates static electricity
- The human body voltage < 100V
- High solids content
- Low VOCs
- Excellent abrasion resistance, impact resistance
- Very good UV resistance, no yellowing
- Textured surface, non-slip
- Very good chemical resistance

APPROVALS / STANDARDS

Meet to the requirements of GB/T 22374-2018

PRODUCT INFORMATION

Chemical Base	Polyurethane	
Packaging	Part A	2.83 kg/pail
	Part B	0.75 kg/pail
	Part C	2.13 kg/bag
	Part D	0.62 kg/bag
	Part A+ B+C+D	6.33 kg/set
Appearance / Colour	Sikafloor®-3150 ESD is semi-gloss after final curing. Sikafloor®-3150 ESD is available in several colours.Please refer to the colorchat for reference.	
Shelf Life	12 months from date of production.	
Storage Conditions	Stored properly in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5°C and +30°C.	

Density	Part A	~ 1.14 kg/l
	Part B	~ 0.99 kg/l
	Part C	~ 4.0 kg/l
	Part D	~ 2.0 kg/l
	Mixed Resin	~ 1.6 kg/l
	All Density values at +23°C.	
Volatile Organic Compound (VOC) Content	< 60g/l	

TECHNICAL INFORMATION

Abrasion Resistance	< 0.03 g
Resistance to Impact	Heavy duty
Tensile Adhesion Strength	≥ 2.0 MPa
Chemical Resistance	Resistant to many chemicals. Please ask for a detailed chemical resistance table.
Coefficient of Friction	>0.5(Dry firction coefficient)
Electrical Resistivity	< $10^9\Omega$
Gloss level	Semi glossy
Surface hardness	7 H

APPLICATION INFORMATION

Mixing Ratio

Part A : Part B: Part C: Part D = 2.83 : 0.75 : 2.13 : 0.62 (by weight)

Consumption

Static dissipative system:

Coating system	Product	Consumption
Primer	Sikafloor®-150/Sikafloor®-156/Sikafloor®-1590	Refer to the PDS
Conductive primer	Sikafloor®-220 W Conductive	Refer to the PDS
Self-leveling	Sikafloor®-262 AS CN	Refer to the PDS
Seal coat	Sikafloor®-3150 ESD	~0.08-0.10 kg/m²

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc. Lower consumption can cause roller marks, gloss differences and irregular surface structure, higher consumption result in water retention.

Layer Thickness	~0.08mm
Ambient Air Temperature	+15°C min. / +30°C max
Relative Air Humidity	30% min. - 75% max.
Dew Point	Beware of condensation! The substrate and uncured floor must be at least 3°C above the dew point to reduce the risk of condensation or blooming on the floor finish.
Substrate Temperature	+15°C min. / +30°C max.
Substrate Moisture Content	< 4% pbw moisture content. Test method: Sika®-Tramex meter or CM - measurement. No rising moisture according to ASTM (Polyethylene-sheet).
Pot Life	
Waiting Time / Overcoating	Before applying Sikafloor®-3150 ESD on Sikafloor® self-leveling series allow:

Substrate Temperature	Minimum	Maximum
+10°C	30 hours	4 days
+20°C	24 hours	3 days
+30°C	16 hours	2 days

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	Full cure
+10°C	~ 30 hours	~ 48 hours	~ 6 days
+20°C	~ 16 hours	~ 24 hours	~ 4 days
+30°C	~ 12 hours	~ 18 hours	~ 3 days

Note: Times are approximate and will be affected by changing ambient conditions.

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.

LIMITATIONS

- Freshly applied Sikafloor®-3150 ESD must be protected from damp, condensation and water for at least 24 hours (+20°C).
- Unevenness of substrates as well as inclusions of dirt cannot be covered by thin sealers coats. Therefore substrate and adjacent areas must be cleaned thoroughly prior to application.
- if use on exterior, slightly yellowing maybe accur.
- Do not thin this product. Addition of thinners will slow the cure and reduce the ultimate properties of this product.
- Use proper short pile ruler to apply this product, and pay attention to the potlife in avoid of color defference.
- For exact color matching, ensure the Sikafloor®-3150 ESD in each area is applied from the same control batch numbers.
- If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO_2 and H_2O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

ECOLOGY, HEALTH AND SAFETY

APPLICATION INSTRUCTIONS

EQUIPMENT

Sikafloor®-3150 ESD must be thoroughly mixed using aelectric stirrer or other suitable equipment.

SUBSTRATE QUALITY / PRE-TREATMENT

- The Sikafloor self-leveling coating system shall be applied onto a concrete substrate that must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc.
- Pull-off strength must be not less than 1.5 N/mm². If in doubt, apply a test area first. (please consult related Sikafloor range product data sheets for details on required substrate quality)
- The Sikafloor self-leveling coating shall be cured and perfectly clean, sound and dry prior application of Sikafloor®-3150 ESD.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.
- Prior application of Sikafloor®-3150 ESD onto epoxy/ PU substrate, it is recommend to rough slightly the surface with light abrasive pads (i.e Scotch-Brite pads) and then remove all loose adhering particles.

MIXING

- Do not mix more material than can be applied within the working time limits at the actual site temperature.
- Empty completely the Part A, into a clean mixing container large enough to accommodate the whole set.
- Then with a Jiffy mix paddle and drill, add the Part B.
- Mix at low speed for 1 minute.
- Then add the part D. Mix for further 2 minutes.
- Finally, add slowly (don't dump!) the part C (filler for textured surface) while mixing to avoid clumping. Mix for 2 minutes.
- To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix.
- Over mixing must be avoided to minimise air entrainment.

APPLICATION

- Prior to application confirm relative air humidity and dew point.
- The floor should be divided into section sections that can be completed without stopping.
- Section should be divided at expansion joints or doorways when possible. The End of the section should be taped off to form a straight line providing a clean edge for an adjacent section.
- Pour the mixture of Sikafloor®-3150 ESD onto the application area, and spread it uniformly with smooth trowel. In order to get better appearance, texture and uniform glossy, the wet film thickness must be controlled in approx. 0.08mm.
- Then, immediately, back roll the material using short pile roller. The roller should be wet in the roller tray or bucket wet and the excess coating is removed to

avoid drips.
- If applied too thick, the material may blister, or have roller marks, if too thin; the coating will appear very flat in sheen.

CLEANING OF TOOLS

- Clean all tools and application equipment with Sika Thinner C immediately after use.
- Hardened and/or cured material can only be removed mechanically.

MAINTENANCE

CLEANING

To maintain the appearance of the floor after application,Sikafloor®-3150 ESD must have all spillages removed immediately and be regularly cleaned.
Please refer to the Sika Cleaning Regime.

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.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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