

# PRODUCT DATA SHEET

## Sikafloor®-2430 ESD

### 2-PART HIGH BUILD ELECTROSTATIC CONTROL EPOXY COATING

#### DESCRIPTION

Sikafloor®-2430 ESD is a 2-component ESD epoxy coating system designed to impart electrostatic control properties to a variety of substrates in conjunction with ESD footwear, including existing non-conductive substrates.

Sikafloor®-2430 ESD will impart static dissipative resistance readings as a standalone topcoat atop a standard epoxy concrete primer such as Sikafloor®-156 T, Sikafloor®-265 T or over existing epoxy floors with an isolation layer of Sikafloor®-261 T.

#### USES

Sikafloor®-2430 ESD may only be used by experienced professionals.

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Sikafloor®-2430 ESD can be used in almost any environment where the damaging effects of electrostatic discharge (ESD) cannot be tolerated. Industries currently using these coatings are:

- Electronics
- Data Processing
- Military/Aerospace
- Photographic, graphic arts

#### CHARACTERISTICS / ADVANTAGES

- Consistent resistance measurements are obtained when testing in accordance with standard methods.
- Sikafloor®-2430 ESD will impart static dissipative resistance readings as a stand-alone topcoat on top of a standard epoxy concrete primer such as Sikafloor®-156 T.
- Maintains electrical conductivity throughout the entire thickness of the system.
- Tough, smooth, non-porous surface is easy to clean and maintain.
- Good abrasion resistance.

#### PRODUCT INFORMATION

<b>Packaging</b>	Comp. A: 16 kg Comp. B: 4 kg
<b>Appearance / Colour</b>	Resin - comp. A: coloured, liquid Hardener - comp. B: brown, liquid
<b>Shelf Life</b>	3 months in original unopened container under proper storage conditions.
<b>Storage Conditions</b>	Storage in dry conditions at temperatures between +5 °C and +35 °C.

#### TECHNICAL INFORMATION

<b>Abrasion Resistance</b>	< 200 mg (CS-17 / 1000 cycles / 1000 g)	(CNS 10757)
<b>Electrostatic Behaviour</b>	2.5 × 10 <sup>4</sup> Ω–10 <sup>8</sup> Ω	

## SYSTEM INFORMATION

<b>Systems</b>	Primer:	1 x Sikafloor®-156 T
	Intermediate coat:	1 x Sikafloor®-265 T mortar
	Conductive seal coat:	1 x Sikafloor®-2430 ESD

This system configuration must be fully complied with as described and may not be changed.

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	Comp. A : B = 4 : 1 (by weight)
<b>Consumption</b>	~0.3 kg/m <sup>2</sup>
<b>Ambient Air Temperature</b>	+10 °C min. / +30 °C max.
<b>Relative Air Humidity</b>	80 % r.h. max.
<b>Dew Point</b>	<b>Beware of condensation!</b> 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.
<b>Substrate Temperature</b>	+10 °C min. / +30 °C max.
<b>Substrate Moisture Content</b>	< 4 % pbw moisture content. Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).
<b>Pot Life</b>	+25 °C: approx. 20 minutes
<b>Curing Time</b>	Foot traffic: 8 hours Full curing: 7 days

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY / PRE-TREATMENT

- The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm<sup>2</sup>) with a minimum pull off strength of 1.5 N/mm<sup>2</sup>.
- The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc.
- Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.
- Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.
- Repairs to the substrate, filling of blowholes/voids and surface levelling can be carried out using appropriate products from the Sikafloor®, SikaDur® and SikaGard® range of materials.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

### MIXING

- Prior to mixing, stir comp. A mechanically. When all of comp. B has been added to comp. A, mix continuously for 2 minutes until a uniform mix has been achieved.
- To ensure thorough mixing pour materials into an

other container and mix again to achieve a consistent mix.

- Over mixing must be avoided to minimize air entrainment.
- Sikafloor®-2430 ESD must be thoroughly mixed using a low speed electric stirrer (300–400 rpm) or other suitable equipment.

### APPLICATION

- Prior to application, confirm substrate moisture content, r.h. and dew point.
- If > 4 % pbw moisture content, Sikafloor® EpoCem® may be applied as a T.M.B. (temporary moisture barrier) system.
- Rough surfaces need to be levelled first. Therefore use e.g. Sikafloor®-156 T / 265-T levelling mortar (see PDS).
- The Sikafloor®-2430 ESD should be applied with a notched squeegee or spary over a smooth primed substrate.
- Back rolling is typically done with a short nap , solvent resistant roller cover.
- Back roll the Sikafloor®-2430 ESD to level the material applied.
- Over-rolling and late back rolling may cause bubbling and leave roller marks. Divide the floor into sections that can be completed without stopping. When ending a section, tape it off to form a clean edge for an adjacent section.
- Apply the coating to the prepared substrate which should be pore-free and pinhole-free. If necessary,

apply an additional coat of a suitable material to ensure the substrate is pore-free and pinhole-free and provides uniform and complete coverage over the entire substrate.

## 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.

## 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.

## ECOLOGY

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.

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