BUILDING TRUST

SYSTEM DATA SHEET

Sikafloor® ESD ECF

HIGH BUILD, PRE- PIGMENTED ELECTROSTATIC CONTROL EPOXY COATING
ENGINEERED WITH SIKAFLOOR® - 264 ECF AT 26 - 33 MILS (0.6 - 0.8 MM)

PRODUCT DESCRIPTION

Sikafloor® ESD ECF is a pre-pigmented epoxy coating to impart electrostatic control properties to a variety engineered of substrates in conjunction with ESD footwear, including existing non-conductive substrates. The system provides very low body voltage values when used with the appropriate ESD compliant footwear. Maintains electrical conductivity throughout the entire thickness of the system. Sikafloor® ESD ECF typically installed at 26 - 33 mils (0.6 - 0.8 mm).

USES

Sikafloor® ESD ECF may only be used by experienced professionals.

Sikafloor® ESD ECF can be used in environments where the damaging effects of electrostatic discharge (ESD) cannot be tolerated. Industries currently using these coatings are:

- Electronics Manufacturing
- Data Processing Facilities
- Military/Aerospace
- Printing Plants
- Photographic/Graphic Arts Studios
- Pharmaceutical/Clean Rooms

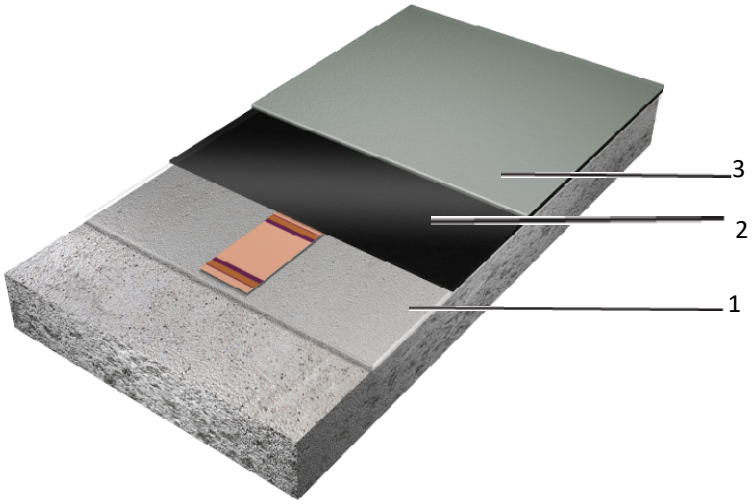
CHARACTERISTICS / ADVANTAGES

- Conforms to ANSI S20.20-2014 when tested in accordance with ANSI STM 97.1
- Conductive range (2.5 x 10^4 to 1.0 x 10^6 ohms) per ANSI/ESD S7.1/ASTM F-150.
- Consistent resistance measurements are observed when testing in accordance with standard methods.
- Maintains electrical conductivity throughout the entire thickness of the system.
- Does not depend on relative humidity for conductive properties.
- Tough, smooth, non-porous surface is easy to clean and maintain.
- Good abrasion resistance.

SYSTEM INFORMATION

System Structure

Sikafloor® ESD ECF ~26 - 33 Mils (0.6 - 0.8 mm))



Description	Products	Thickness mils/inch
1. Primer	Sikafloor®-161	8 - 10
2. Conductive Primer	Sikafloor®-222 W	4 - 6
3.Top Coats	Sikafloor®-264 ECF	16 - 20
Options		
Primers	Sikafloor®-1620	8 - 10
	Sikafloor®-165 FS	8 - 10

Color	Available in broad range of standard and custom colors. Please refer to Sikafloor ESD Color Guide and Contact Customer Service for custom colors availability.
Nominal thickness	26 - 33 mils (0.6 - 0.8 mm)
Minimum thickness	26 mils (0.6 mm))
Volatile organic compound (VOC) content	Please refer to the individual Product Data Sheets

TECHNICAL INFORMATION

Shore D Hardness	82	ASTM D2240 at 73°F (23°C) and 50% R.H
Absorption Resistance	CS-17/ 1000 cycles /1000 ~90 mg loss	ASTM D4060 at 73°F (23°C) and 50% R.H
Compressive Strength	7,542 psi (52 MPa)	ASTM C579 at 73°F (23°C) and 50% R.H
Flexural Strength	8,557.23.Psi (59 MPa)	ASTM D790 at 73°F (23°C) and 50% R.H
Tensile Strength	4,931 Psi (34 Mpa)	ASTM C638 at 73°F (23°C) and 50% R.H
Tensile Adhesion Strength	> 400 Psi (2.7 Mpa)	ASTM D4551 at 73°F (23°C) and 50% R.H
Elongation at Break	8.3 %	ASTM D638 at 73°F (23°C) and 50% R.H
Impact Strength	26 ft.lbs	ASTM 2794 at 73°F (23°C) and 50% R.H
Indentation	1.16 %	MIL-PRF-24613 at 73°F (23°C) and 50% R.H
Chemical Resistance	Please consult Sikafloor Technical Services.	
Coefficient of Friction	0.31	ANSI 326.3 at 73°F (23°C) and 50 % R.H

APPLICATION INFORMATION

Coverage

Description	**Products**	**Approximates Sq.Ft./kit**
1. Primer	Sikafloor®-161	900@8mils
2. Conductive Primer	Sikafloor®-222 W	560@4mils
3. Top Coats	Sikafloor®-264 ECF	450@16 mils
Options		
Primers	Sikafloor®-1620	900@8mils
	Sikafloor®-165 FS	1,000@8mils

Ambient Air Temperature	Minimum/Maximum 50/85 ˚F (10/30 ˚C)
Substrate Temperature	Minimum/Maximum 50/85 ˚F (10/30 ˚C)

PRODUCT INFORMATION

Packaging	Please refer to the individual Product Data Sheets
Shelf Life	Please refer to the individual Product Data Sheets
Storage Conditions	Please refer to the individual Product Data Sheets

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

LIMITATIONS

Please refer to the individual Product Data Sheets

ENVIRONMENTAL, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets before using any products. 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.

SUBSTRATE PREPARATION

Concrete surfaces must be clean and sound. Remove all dust, dirt, existing paint films, efflorescence, exudates, laitance, form oils, hydraulic or fuel oils, brake fluid, grease, fungus, mildew, biological residues or any other contaminants which may prohibit a good bond. Prepare the surface by any appropriate mechanical means, in order to achieve a profile equivalent to ICRI - CSP 3-6. The compressive strength of the concrete substrate should be at least 3,625 psi (25 MPa) at 28 days and a minimum of 218 psi (1.5 MPa) in tension at the time of application.

Repairs to cementitious substrates, filling of blowholes, leveling of irregularities, etc. should be carried out using an appropriate Sika profiling mortar. Contact Sika Technical Service for a recommendation.

Primer
Priming for concrete substrate is required. Prime with either Sikafloor-160, Sikafloor-161, Sikafloor-1620 or Sikafloor-165 FS. Allow the primer to cure (varies with temperature and humidity) until tack free before applying subsequent coats.

Ensure that the primer is pore-free, pinhole-free and provides uniform and complete coverage over the entire substrate. Please refer to the most current and respective Product Data Sheet for further information.

MIXING

Please refer to the individual Product Data Sheets

APPLICATION

Please refer to the individual Product Data Sheets

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

- **KEEP CONTAINER TIGHTLY CLOSED**
- **KEEP OUT OF REACH OF CHILDREN**
- **NOT FOR INTERNAL CONSUMPTION**
- **FOR INDUSTRIAL USE ONLY**
- **FOR PROFESSIONAL USE ONLY**

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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