BUILDING TRUST

SYSTEM DATA SHEET

Sikafloor® ESD CR U

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USES

Sikafloor® ESD CR U may only be used by experienced professionals.

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

- Electronics
- Data Processing
- Military/Aerospace
- Printing Industry, Photographic/graphic

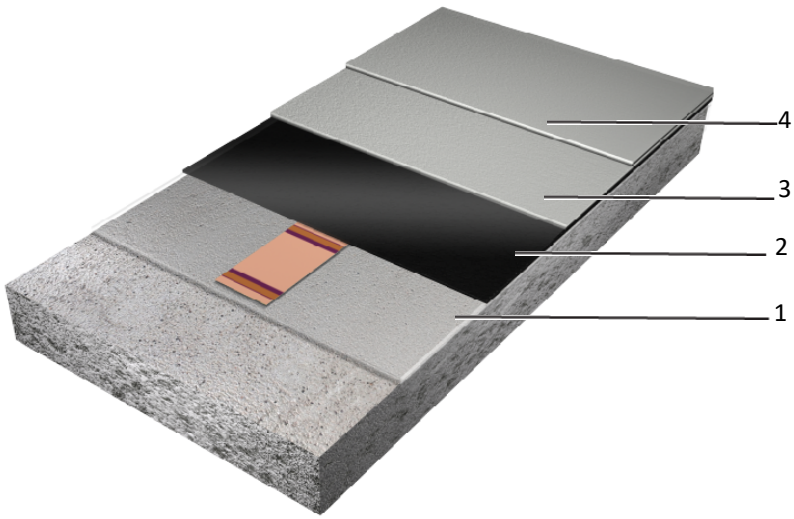
CHARACTERISTICS / ADVANTAGES

- Consistent resistance measurements are obtained when testing in accordance with standard methods.
- Very low body voltage generation values possible when wearing heel straps C or SD footwear.
- Conforms to ANSI S20.20-2014 when tested in accordance with ANSI STM 97.1
- Available in conductive range (2.5 x 10^4 to 1.0 x 10^6 ohms) per ANSI/ESD S7.1/ASTM F-150 when Sikafloor®-ESD CR U is used in conjunction with Sikafloor®-264 Base Coat.
- Sikafloor®- ESD CR U will impart static dissipative resistance readings as a stand-alone topcoat on top of a standard epoxy Base Coat and Primer such as Sikafloor 160, Sikafloor 161, Sikafloor 165 FS or Sikafloor 1620.
- 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 CR U~ 26 - 33 Mils (0.6 - 0.8 mm)



Description	Products	Thickness mils/inch
1. Primer	Sikafloor®-161	8 - 10
2.Base Coat	Sikafloor®-264	12 - 16
3.Standard Top Coat	Sikafloor®-340 ESD	4 - 6
4. Recommended 2nd top Coat	Sikafloor®-340 ESD	4 - 6
Options		
Primers	Sikafloor®-1620	8 - 10
	Sikafloor®-165 FS	8 - 10

Color	Available in broad range of standard and custom colors. Please refer to Standard Color selection 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	84	ASTM D2240 at 73°F (23°C) and 50% R.H
Absorption Resistance	90g CS-17 Wheels/ 1000 cycles	ASTM D4060 at 73°F (23°C) and 50% R.H
Compressive Strength	7,426 Psi (51.2 MPa)	ASTM C695 at 73°F (23°C) and 50% R.H
Flexural Strength	4,902 Psi (33.8 MPa)	ASTM D790 at 73°F (23°C) and 50% R.H
Flexural Modulus Elasticity	8.34E+05 psi (5.75E3 MPa)	ASTM D790 at 73°F (23°C) and 50% R.H
Tensile Strength	4,902 Psi (33.8 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	3.7%	ASTM D638 at 73°F (23°C) and 50% R.H
Impact Strength	0.95 ft.lbs	ASTM 2794 at 73°F (23°C) and 50% R.H
Indentation	52%	MIL-PRF-24613 at 73°F (23°C) and 50% R.H
Chemical Resistance	Please consult Sikafloor Technical Services.	
Coefficient of Friction	0.25	ANSI 137.1 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. Base Coat	Sikafloor®-264	600@12mils
	3.Standard Top Coat	Sikafloor®-340 ESD	1,852@4 mils
	4. Recommended 2nd top Coat	Sikafloor®340 ESD	1,825@ 4 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.

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