

## SYSTEM DATA SHEET

# Sikafloor® Merflex ES

FLEXIBLE EPOXY WATERPROOFING SMOOTH FINISH FLOORING ENGINEERED WITH SIKAFLOOR® - 265 AT 50 - 62 MILS (1.3 - 1.6 MM)

### PRODUCT DESCRIPTION

Sikafloor® Merflex ES is an epoxy-based, flexible flooring system designed for areas requiring a waterproofing membrane with durable wear surface, such as mechanical rooms. This system has excellent waterproofing, flexibility and crack-bridging properties. Sikafloor® Merflex ES is typically installed at 50 - 62 mils (1.3 - 1.6 mm) thickness.

### USES

Sikafloor® Merflex ES may only be used by experienced professionals.

- Mechanical equipment rooms
- Interior floor spaces where humidity & temperature are micro-controlled
- Access floor systems for computer rooms and offices where liquid lines are prevalent
- Areas requiring an elastomeric water protection surface that can accept heavier traffic

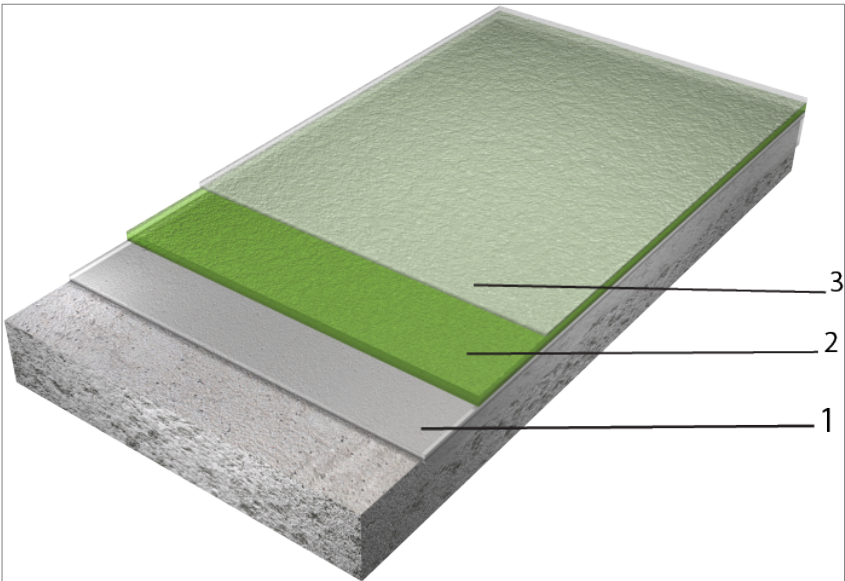
### CHARACTERISTICS / ADVANTAGES

- Tough, durable and seamless floor
- Performance benefits of both an elastomeric membrane & a wearing surface combined in one system
- Excellent crack bridging capabilities
- Flammability ASTM E648 Class I with any recommended finish coat

# SYSTEM INFORMATION

System Structure

Sikafloor® Merflex ES System 50 - 62 mils (1.3 - 1.6 mm)



Description	Products	Thickness mils
1. Base Coat	Sikafloor®-265 + Sikafloor® Epoxy Pigment Pack	20 - 25
2. Body Coat	Sikafloor®-265 + Sikafloor® Epoxy Pigment Pack	20 - 25
3. Top Coat	Sikafloor®-264	10 - 12

Options Description	Products	Thickness mils
Primers	Sikafloor®-160	8 - 10
Alternate Top Coats	Sikafloor®-1620	12 - 15
	Sikafloor®-510 LPL* + Sikafloor® Urethane Pigment Pack	12 - 15
2 <sup>nd</sup> Top Coats	Sikafloor®-315** + Sikafloor®-Urethane Pigment Pack	3 - 4
	Sikafloor®-340** + Sikafloor® Urethane Pigment Pack	4 - 6

\*Sikafloor®-510 LPL would be an alternate top coat to replace Sikafloor®-264 for superior UV resistance, color stability, and increased chemical resistance

\*\*Sikafloor®-315 and Sikafloor®-340 would be optional top coats on top of Sikafloor®-264 for increased chemical and abrasion resistance

Color	Available in clear or field pigmented
Nominal thickness	50 - 62 mils (1.3 to 1.6 mm)
Minimum thickness	50 mils (1.3 mm)

## TECHNICAL INFORMATION

Shore D Hardness	82	ASTM D2240 at 73°F (23°C) and 50% R.H
Impact Strength	160 in - lbs. (1.8 kg-m.) direct and reverse	ASTM D2794 at 73°F (23°C) and 50% R.H
Tensile Strength	1,050 psi (7.2 MPa)	ASTM D638 at 73°F (23°C) and 50% R.H
Tensile Adhesion Strength	520 psi (3.6 MPa) 100% concrete failure	ASTM D4541 at 73°F (23°C) and 50% R.H
Tear Strength	90 lbs (0.40)	ASTM D1938 at 73°F (23°C) and 50% R.H
Resistance to Thermal Shock	Self Extinguishing	ASTM D635 at 73°F (23°C) and 50% R.H
Chemical Resistance	Please consult Sikafloor Technical Services.	

## APPLICATION INFORMATION

Coverage	Description	Products	Approximates Sq.Ft./kit
	1. Base Coat	Sikafloor®-265 + Sikafloor® Epoxy Pigment Pack	800@20 mils  1 quart per 10 gallon kit
	2. Body Coat	Sikafloor®-265 + Sikafloor® Epoxy Pigment Pack	800@20 mils  1 quart per 10 gallon kit
	3. Top Coat	Sikafloor®-264	720@10 mils
	<b>Options</b>		
	<b>Description</b>	<b>Products</b>	<b>Approximates Sq.Ft./kit</b>
	Primers	Sikafloor®-160	3,000@8 mils
		Sikafloor®-1620	533@12 mils
	Alternate Top Coats	Sikafloor®-510 LPL + Sikafloor® Urethane Pigment Pack	1,210@12 mils  3 quarts per 8.33 gallon kit
	2 <sup>nd</sup> Top Coats	Sikafloor®-315 + Sikafloor® Urethane Pigment Pack	2,340@4 mils  2 quarts per 5.34 gallon kit
		Sikafloor®-340 + Sikafloor® Urethane Pigment Pack	2,200@4 mils  2 quarts per 5 gallon kit
<b>Substrate Temperature</b>	Minimum/Maximum 50°/85°F (10°/30°C).		
<b>Pot Life</b>	Please refer to the individual Product Data Sheets.		
<b>Waiting / Recoat Times</b>	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 for Limitations

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of

chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## APPLICATION INSTRUCTIONS

### 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.

### Priming

When Sikafloor®-265 is used as a waterproofing membrane it must be a minimum of 40 mils. If applying in a single coat, primer must be used. Prime with either Sikafloor®-160, Sikafloor®-161, Sikafloor®-1620, Sikafloor®-165 FS or Sikafloor®-2570WB.

Allow the primer to cure (varies with temperature and humidity) until tack free before applying subsequent membrane coats. Ensure that the primer is pore-free, pinhole-free and provides uniform and complete coverage over the entire substrate.

Please refer to the individual most current and respective Product Data Sheet for specific and detailed 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](http://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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**System Data Sheet**  
**Sikafloor® Merflex ES**  
May 2024, Version 03.01  
020811900000000166

SikafloorMerflexES-en-US-(05-2024)-3-1.pdf

