

SYSTEM DATA SHEET

Sikafloor® Merflex EB

BROADCAST WATERPROOFING AND WEAR RESISTANT EPOXY FLOORING ENGINEERED WITH SIKAFLOOR® -265 AT 96 - 118 MILS (2.4 - 3.0 MM)

PRODUCT DESCRIPTION

Sikafloor® Merflex EB is an epoxy-based, flexible, abrasion and slip-resistant flooring system designed for areas requiring a waterproofing membrane and a durable wear surface. Broadcast aggregate provides a slip-resistant surface for walkways or areas of spillage. Sikafloor® Merflex EB typically installed at 96 - 118 mils (2.4 - 3.0 mm) thickness.

USES

Sikafloor® Merflex EB 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

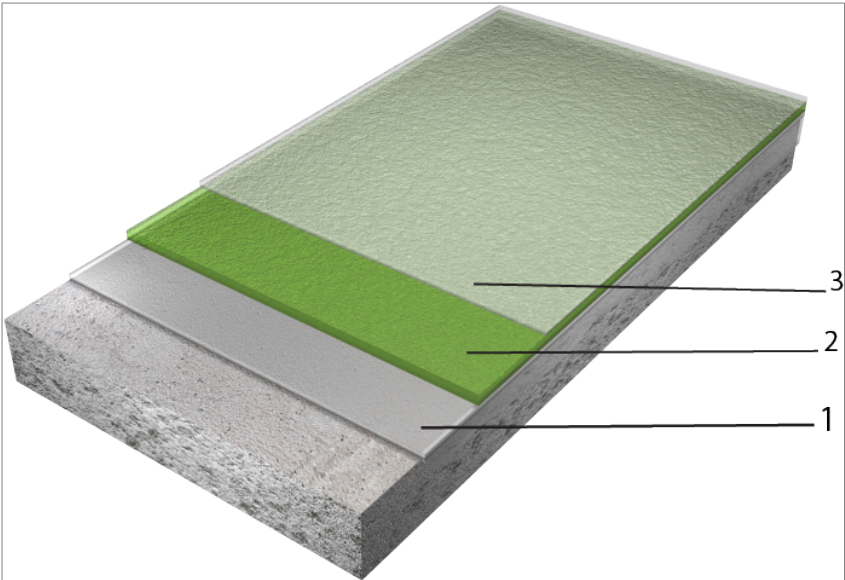
CHARACTERISTICS / ADVANTAGES

- Tough, durable and seamless floor
- Performance benefits of both an elastomeric membrane & a wearing surface combined in one system
- Excellent crack-bridging capabilities

SYSTEM INFORMATION

System Structure

Sikafloor® Merflex EB System 96 - 118 mils (2.4 - 3.0 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 + Sikadur®-508 Aggregate	60 - 75
3. Top Coat	Sikafloor®-264	16 - 18

Options Description	Products	Thickness mils
Primers	Sikafloor®-160	8 - 10
Alternate Top Coats	Sikafloor®-1620	12 - 15
	Sikafloor®-510 LPL* + Sikafloor® Urethane Pigment Pack	10 - 12
2 nd Top Coats	Sikafloor®-315** + Sikafloor® Urethane Pigment Pack	3 - 4
	Sikafloor®-340** + Sikafloor® Urethane Pigment Pack	4 - 6
<p>*Sikafloor®-510 LPL would be an alternate top coat to replace Sikafloor®-264 for superior UV resistance, color stability, and increased chemical resistance</p> <p>**Sikafloor®-340 and Sikafloor®-315 would be optional top coats on top of Sikafloor®-264 for increased chemical and abrasion resistance</p>		
Color	Available in clear or field pigmented	
Nominal thickness	96 - 118 mils (2.4 - 3.0 mm)	
Minimum thickness	96 mils (2.4 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 + Sikadur®-508 Broadcast Aggregate	1,333@12 mils 1 quart per 10 gallon kit 4.8 bags per 10 gallon kit
	3. Top Coat	Sikafloor®-264	450@16 mils
	Options		
	Description	Products	Approximates Sq.Ft./kit
	Primers	Sikafloor®-160	3,000@8 mils
	Alternate Top Coats	Sikafloor®-1620	533@12 mils
		Sikafloor®-510 LPL + Sikafloor® Urethane Pigment Pack	1,210@12 mils 3 quarts per 8.33 gallon kit
	2 nd 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
Ambient Air Temperature	Minimum/Maximum 50°/85°F (10°/30°C)		
Substrate Temperature	Minimum/Maximum 50°/85°F (10°/30°C).		
Pot Life	Please refer to the individual Product Data Sheets.		
Waiting / Recoat Times	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 using Sikafloor®-265 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 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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