

SYSTEM DATA SHEET

Sikafloor® Merflex PB

BROADCAST WATERPROOFING AND WEAR RESISTANT POLYURETHANE FLOORING ENGINEERED WITH SIKAFLOOR®-330 AT 100 - 125 MILS (2.5 - 3.0 MM)

PRODUCT DESCRIPTION

Sikafloor® Merflex PB is an polyurethane-based, flexible, abrasion and slip resistant flooring system designed for areas requiring a water protection membrane and a durable wear surface. Broadcast aggregate provides a slip resistant surface for walkways or areas of spillage. Sikafloor® Merflex PB is typically installed at 100 - 125 mils (2.5 - 3.0 mm) thickness.

USES

Sikafloor® Merflex PB 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

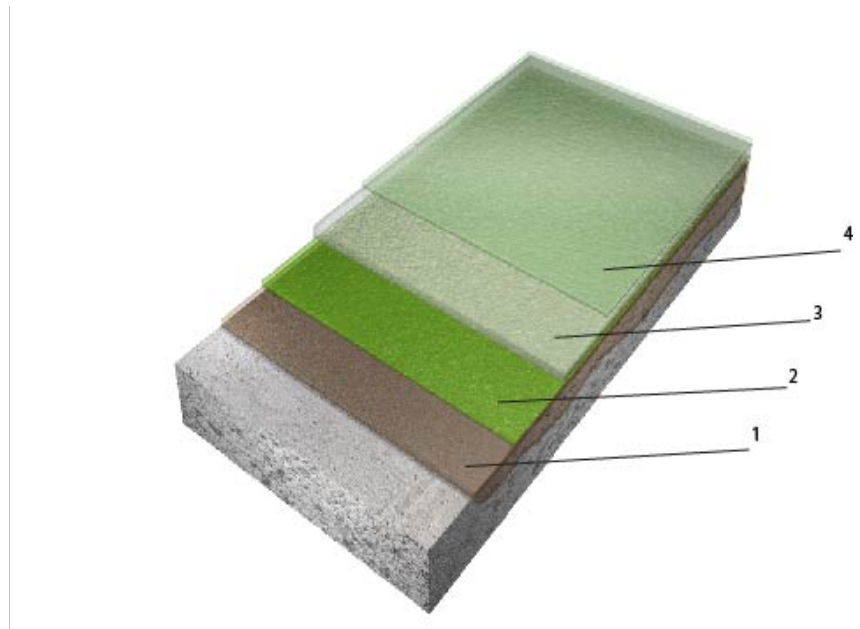
CHARACTERISTICS / ADVANTAGES

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

SYSTEM INFORMATION

System Structure

Sikafloor® Merflex PB System 100 - 125 mils (2.5 - 3.0 mm)



Description	Products	Thickness mils
1. Primer	Sikafloor®-161 Sikafloor®-330	8 - 12
2. Base Coat	+ Sikafloor®-Epoxy N Color Add Sikafloor®-330	40 - 50
3. Body Coat	+ Sikafloor®-Epoxy N Color Add + Sikafloor®-508 Aggregate	40 - 50
4. Top Coat	Sikafloor®-264	12 - 16
Options		
Primers	Sikafloor®-2570	3 - 10
	Sikafloor®-165 FS	8 - 10
	Sikafloor®-1610	
Alternate Body Coat	Sikafloor®-264* + Sikafloor®-508 Aggregate	10 - 12
	Sikafloor®-511** + Sikafloor®-SCO Color Add	12 - 16
Alternate Top Coat	Sikafloor®-316 N*** + Sikafloor®-SCO Color Add	4 - 6
	Sikafloor®-340*** + Sikafloor®-Urethane Color Add	4 - 6

*Sikafloor-264 with Sikafloor®-508 Aggregate would be an alternate Body Coat to replace Sikafloor 330 .

** Sikafloor-511 would be an alternate topcoat to replace Sikafloor 264 for superior UV resistance, color stability, and increased chemical resistance

***Sikafloor-340 and Sikafloor-316 N would be an optional 2nd top coat on top of Sikafloor-264 for increased chemical and abrasion resistance

Color	Refer to Sikafloor 264 and Sika Comfort floor Color Additives Selection Guide. The Sikafloor 330 should be pigmented the same or close to the color of the top coat.
Nominal thickness	100 to 125 mils (2.5 to 3.0 mm)
Minimum thickness	100 mils (2.5 mm)
Volatile organic compound (VOC) content	Please refer to the individual Product Data Sheets.

TECHNICAL INFORMATION

Shore A Hardness	>80 (14 days)	ASTM D2240 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	1,142 psi.(~ 8.0 N/mm ²)	ASTM D412 at 73°F(23°C) and 50% R.H
Tensile Adhesion Strength	> 400 psi (concrete failure)	ASTM D4541 73°F (23°C) and 50% R.H
Tear Strength	142.75 lb./in.(~ 25 N/mm 14 days)	ASTM D624 at 73°F(23°C) and 50% R.H
Crack Bridging Ability	~180 % (14 days)	ASTM D412 73°F (23°C) and 50% R.H
Chemical Resistance	Sikafloor® -330 must be sealed with another suitable Sikafloor® topcoat. For chemical resistance of the system, Please consult Sikafloor® Technical Services.	

APPLICATION INFORMATION

Coverage	Description	Products	Approximates Sq.Ft./kit
	1. Primer	Sikafloor®-161	900@8mils
		Sikafloor®-330	288@40mils
	2. Base Coat	Sikafloor®-Epoxy N Color Add	2 quart per 7.22 gallon kit
		Sikafloor®-330	288@40mils
	3. Body Coat		2 quart per 7.22 gallon kit 4.8 bags per 10 gallon kit
	4. Top Coat	Sikafloor®-264	450@16mils
Options			
	Primers	Sikafloor®-2570	2667@3mils
		Sikafloor®-165 FS	800@8mils
		Sikafloor®-1610	
	Alternate Body Coat	Sikafloor®-264	720@10mils
		Sikafloor®-508	4.3 bags per
		Broadcast Aggregate	4.5 gallon kit
	Alternate Top coats	Sikafloor®-511	1100@12mils
		Sikafloor®-SCO Color Add	3 quarts per 8.33 gallon kit
		Sikafloor®-316 N	2,400@4mils
	2 nd Top coats	Sikafloor®-SCO Color Add	2 quarts per 5.5 gallon kit
		Sikafloor®-340	2,200@4mils
		Sikafloor®-Urethane Color Add	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.		
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 for Limitations.

ENVIRONMENTAL, HEALTH AND SAFETY

Please refer to the individual Product Data Sheets.

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

Priming for concrete substrate is required. Prime with either Sikafloor 160, Sikafloor 161, Sikafloor 1610, Sikafloor 165 FS or Sikafloor 2570.

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 individual most current and respective

Product Data Sheet for specific and detailed information. 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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