

SYSTEM DATA SHEET

Sikafloor® Merflex PB

BROADCAST WATERPROOFING AND WEAR RESISTANT POLYURETHANE FLOORING ENGINEERED WITH SIKAFLOOR®-330 AT 100 - 128 MILS (2.5 - 3.3 MM)

PRODUCT DESCRIPTION

Sikafloor® Merflex PB is a 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 - 128 mils (2.5 - 3.3 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

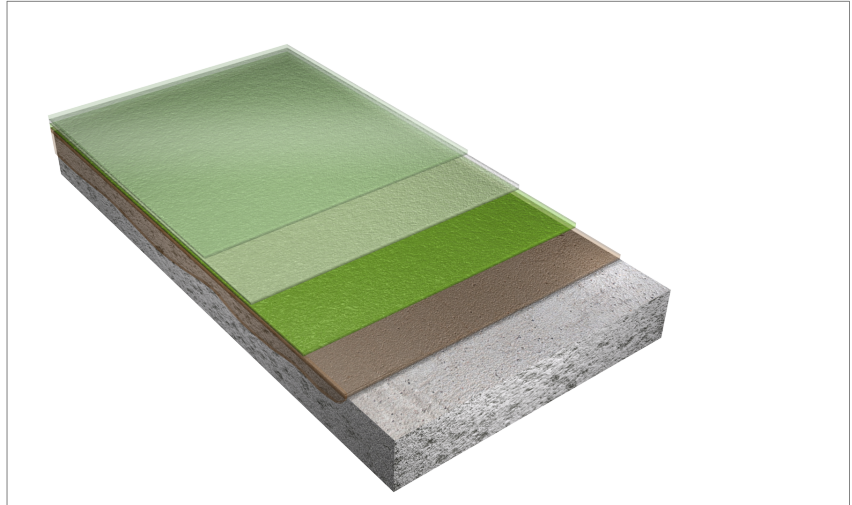
CHARACTERISTICS / ADVANTAGES

- 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 - 128 mils (2.5 - 3.3 mm)



Description	Products	Thickness mils
1. Primer	Sikafloor®-160	8 - 12
2. Base Coat	Sikafloor®-330 + Sikafloor® Epoxy Pigment Pack	40 - 50
3. Body Coat	Sikafloor®-330 + Sikafloor® Epoxy Pigment Pack + Sikadur®-508 Aggregate	40 - 50
4. Top Coat	Sikafloor®-264	12 - 16

Options Description	Products	Thickness mils
Primers	Sikafloor®-2570WB	3 - 10
	Sikafloor®-165 FS	8 - 10
Alternate Top Coat	Sikafloor®-1620	12 - 15
	Sikafloor®-510LPL* + Sikafloor® Urethane Pigment Pack	12 - 16
2 nd Top Coats	Sikafloor®-315** + Sikafloor® Urethane Pigment Pack	3 - 4
	Sikafloor®-340** + Sikafloor® Urethane Pigment Pack	4 - 6

*Sikafloor®-510LPL 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 2nd top coats 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 128 mils (2.5 to 3.3. mm)

Minimum thickness 100 (2.5 mm)

TECHNICAL INFORMATION

Shore A Hardness >80 (14 days) 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 1,142 psi.(~ 8.0 N/mm²) ASTM D412
at 73°F(23°C) and 50% R.H

Tensile Adhesion Strength > 400 psi (concrete failure) ASTM D4541
at 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
at 73°F (23°C) and 50% R.H

Chemical Resistance Sikafloor®-330 must be sealed with another suitable Sikafloor® top coat. For chemical resistance of the system, please consult Sikafloor® Technical Services.

APPLICATION INFORMATION

Coverage	Description	Products	Approximates Sq.Ft./kit
1. Primer		Sikafloor®-160	3,000@8 mils
2. Base Coat		Sikafloor®-330 +	288@40 mils
		Sikafloor® Epoxy Pigment Pack	2 quarts per 7.22 gallon kit
3. Body Coat		Sikafloor®-330 +	288@40 mils
		Sikafloor® Epoxy Pigment Pack	2 quarts per 7.22 gallon kit
		+	
		Sikadur®-508 Aggregate	4.8 bags per 10 gallon kit
4. Top Coat		Sikafloor®-264	450@16 mils
Options			
	Description	Products	Approximates Sq.Ft./kit
	Primers	Sikafloor®-2570WB	2,667@3 mils
		Sikafloor®-165 FS	1,000@8 mils
		Sikafloor®-1620	533@12 mils
	Alternate Top Coats	Sikafloor®-510LPL +	1,210@12 mils
		Sikafloor® Urethane Pigment Pack	3 quarts per 8.33 gallon kit
	2 nd Top Coats	Sikafloor®-315 +	2,340@4 mils
		Sikafloor® Urethane Pigment Pack	2 quarts per 5.34 gallon kit
		Sikafloor®-340 +	2,200@4 mils
		Sikafloor® Urethane Pigment Pack	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

Priming for concrete substrate is required. 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 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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