

## SYSTEM DATA SHEET

# Sikafloor® Merflex PS

FLEXIBLE POLYURETHANE WATERPROOFING SMOOTH FINISH FLOORING ENGINEERED WITH SIKAFLOOR®-330 AT 50 - 68 MILS (1.3 - 1.7 MM)

### PRODUCT DESCRIPTION

Sikafloor® Merflex PS is a polyurethane-based, flexible flooring system designed for areas requiring a water protection membrane with a durable wear surface, such as mechanical rooms. This system has excellent waterproofing, flexibility and crack-bridging properties. Sikafloor® Merflex PS is typically installed at 52 - 68 mils (1.3 - 1.7 mm) thickness.

### USES

Sikafloor® Merflex PS 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

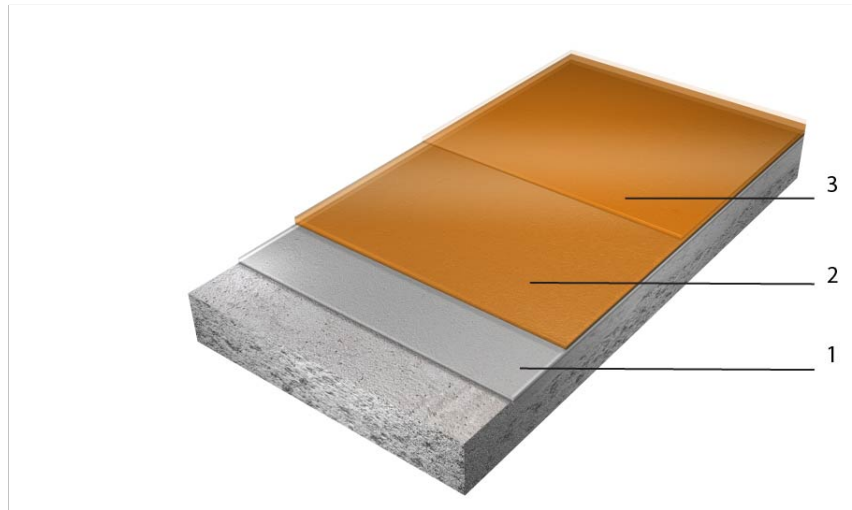
### CHARACTERISTICS / ADVANTAGES

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

# SYSTEM INFORMATION

## System Structure

## Sikafloor® Merflex PS System 52 - 68 mils (1.3 - 1.7 mm)



Description	Products	Thickness mils
1. Primer	Sikafloor®-161 Sikafloor®-330	8 - 12
2. Body Coat	+ Sikafloor®-Epoxy N Color Add	40 - 50
3. Top Coat	Sikafloor®-305 W NA	4 - 6
<b>Options</b>		
Primers	Sikafloor®-2570	3 - 10
	Sikafloor®-165 FS	8 - 10
	Sikafloor®-1610	
Alternate Top Coats	+ Sikafloor®-511*	10 - 12
	Sikafloor®-SCO Color Add	
2 <sup>nd</sup> Top Coats	+ Sikafloor®-316 N**	4 - 6
	+ Sikafloor®-SCO Color Add	
	+ Sikafloor®-340**	4 - 6
	Sikafloor®-Urethane Color Add	

\* Sikafloor-511 would be an alternate topcoat to replace Sikafloor 305 W NA for superior UV resistance, color stability, and increased chemical resistance

\*\*Sikafloor-316 N and Sikafloor-340 would be an optional top coat on top of Sikafloor-305 W NA for increased chemical and abrasion resistance.

### Color

Refer to Sika Comfort floor Color Additives Selection Guide.  
Be aware of the color of Sikafloor-330 should be close to the color of the Sikafloor 305 W NA Topcoat to ensure good hiding characteristics.

### Nominal thickness

52 - 68 mils (1.3 - 1.7 mm)

### Minimum thickness

52 (1.3 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 <sup>2</sup> )	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
Resistance to Thermal Shock	Self Extinguishing	ASTM D635 at 73°F (23°C) and 50% R.H
Chemical Resistance	Sikafloor® -330 must be sealed with Sikafloor® 305 W NA or 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
		Sikafloor®-Epoxy N Color Add	2 quart per 7.22 gallon kit
2. Body Coat		Sikafloor®-305 W	653@5mils
3. Top Coat			
<b>Options</b>			
Primers		Sikafloor®-2570	2667@3mils
		Sikafloor®-165 FS	1000@8mils
		Sikafloor®-1610	900@8mils
Alternate Top coats		Sikafloor®-511	1,486@10mils
		Sikafloor®-SCO Color Add	3 quarts per 8.33 gallon kit
2 <sup>nd</sup> Top coats		Sikafloor®-316 N	2,400@4mils
		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

<b>Packaging</b>	Please refer to the individual Product Data Sheets.
<b>Shelf Life</b>	Please refer to the individual Product Data Sheets.
<b>Storage Conditions</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

Please refer to the individual Product Data Sheets.

## 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

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## 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.

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### System Data Sheet

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