

## SYSTEM DATA SHEET

# Sikafloor® DecoDur Flake UEF

SELF-LEVELING THIN LAYER URETHANE CEMENTITIOUS SLURRY, MOISTURE CONTROL, DECORATIVE FLAKE AND SEALED FINISH @ 160 - 180 MILS (4.0 - 4.6 MM).

### PRODUCT DESCRIPTION

Sikafloor® DecoDur Flake UEF is multi layer moisture control and decorative flake floor system. The first layer creates a moisture vapor tolerant barrier between the concrete substrate and finished Sikafloor System that consists of a self-leveling, three-component, cementitious urethane slurry either finished smooth or broadcast to rejection with Sikadur aggregate. The second layer is an aesthetic, easy to clean, seamless floor using epoxy binder that is broadcast with a colored vinyl flake blend and sealed with a clear, or UV stable topcoat. The system is customizable with an extensive blend palette and maybe double broadcast for increased thickness. Finish surface options include an integral cove base and variable surface texture to produce a range of slip-resistant finishes. Sikafloor® DecoDur Flake UEF typically installed @ 160 - 180 mils (4.0 - 4.6 mm).

### USES

Sikafloor® DecoDur Flake UEF may only be used by experienced professionals.

- Pharmaceutical facilities
- Food processing areas
- Commercial kitchens
- Public spaces
- Factories
- Hospitals, labs and health care facilities
- Cafeterias
- Lobbies
- Classrooms

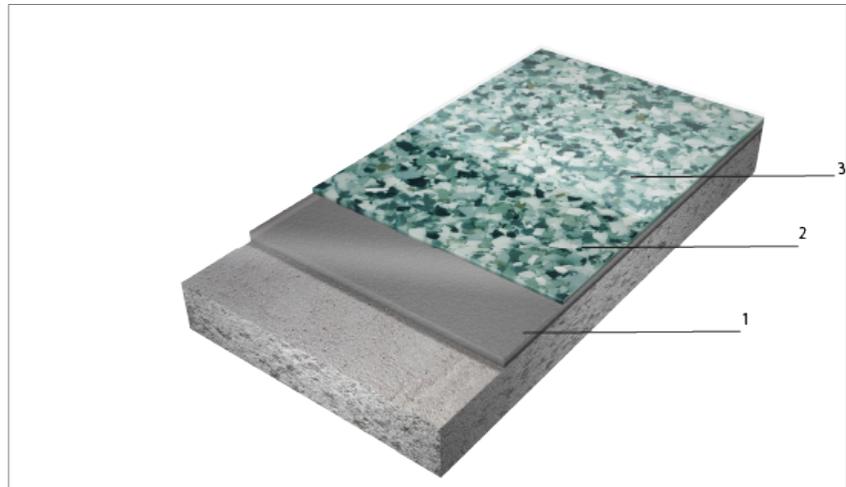
### CHARACTERISTICS / ADVANTAGES

- Can be applied on green concrete, typically 7-10 days. Full 28 days cure time is not necessary.
- Can be applied over partially cured concrete substrates (> 4% mass (pbw –part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter surface moisture).
- Can be applied to concrete substrates where <100 % relative humidity is measured as per ASTM F2170.
- Substrate has tensile bond strength in excess of 218 psi (1.5 MPa). Substrate has tensile bond strength in excess of 218 psi (1.5 MPa).
- Resists a very wide range of organic and inorganic acids, alkalis, amines, salts and solvents. Consult Sika Technical Service for full details. Refer to the Sikafloor - 24 NA Purcem FS Chemical Resistance Chart.
- Similar coefficient of thermal expansion to concrete allowing movement with the substrate through normal thermal cycling. It will perform and retain its physical characteristics through a wide temperature range from -40 °F (-40 °C) up to 248 °F (120 °C).
- Steam cleanable at 80 to 160 mils (2 to 4 mm) thickness.
- Non-tainting, odorless.
- Behaves plastically under impact / deforms but will not crack or debond.
- High abrasion qualities result from its aggregate structure.
- Extra Expansion joints are not necessary; maintain and extend existing expansion joints up through the Sikafloor PurCem Flooring System.
- Minimal maintenance costs, superior life cycle cost advantage versus tile.
- Meets the requirements of USDA for use in food plants.

# SYSTEM INFORMATION

## System Structure

## Sikafloor® DecoDur Flake UEF ~ 160 -180 mils (4.0 – 4.6 mm)



Description	Products	Thickness mils
1. Body Coat	Sikafloor®-24 NA PurCem + Sikadur®- 508 Aggregate	160 - 180
2. Receiver Coat	Sikafloor®-264 + Sika Decorative Flake	10 - 12
3. Top Coat	Sikafloor®-217	10 - 12
<b>Options</b>		
Primers	Sikafloor®-31 NA PurCem* Sikafloor®-2570*	15 - 20 3 - 5
Scratch Coat	Sikafloor®-24 NA PurCem* Sikafloor®-511**	40 - 60
Alternate Receiver Coat	+ Sikafloor®-SCO Color Add	15 - 18
Alternate Top Coat	Sikafloor®-511**	12 - 15
	Sikafloor®-511**	8 - 12
	Sikafloor®-217**	8 - 12
2 <sup>nd</sup> Top Coats	Sikafloor®-304 W NA***	5 - 8
	Sikafloor®-340 ***	4 - 6
	Sikafloor®-315 N****	4 - 6

\* Primer/Scratch coat required if applied with a smooth finish, and optional for broadcast system.

\*\* Sikafloor- 264 and Sikafloor-217 may be replaced by Sikafloor-511 for greater UV resistance, fast cure time

\*\*\* Sikafloor-304 W NA would be an optional 2<sup>nd</sup> top coat on top of Sikafloor-217 for gloss reduction or matte finish required

\*\*\*\* Sikafloor-340 and Sikafloor-315 N clear would be an optional 2nd top coat on top of Sikafloor-217 increased chemical resistance

**To reduce cure time use Sikafloor®- PurCem® Fast Set**

## Color

Available in various standard color blends, refer to Sikafloor® DecoFlake® color guide.

## Nominal thickness

160 - 180 mils (4.0 - 4.6 mm)

<b>Minimum thickness</b>	160 mils (4.0 mm)	
<b>Volatile organic compound (VOC) content</b>	Please refer to the individual Product Data Sheet	

## TECHNICAL INFORMATION

<b>Water Absorption</b>	0.10%	ASTM C413 at 73°F (23°C) and 50% R.H
<b>Shore D Hardness</b>	83	ASTM D2240 at 73°F (23°C) and 50% R.H
<b>Abrasion Resistance</b>	58 mg loss (CS-17/1000 rotations/1000g)	ASTM D4060 at 73°F (23°C) and 50% R.H
<b>Indentation</b>	~ 0%	MIL -PRF -24613 at 73°F (23°C) and 50% R.H
<b>Compressive Strength</b>	6,961psi (48 MPa) 28 days	ASTM 579 73°F (23°C) and 50% R.H
<b>Tensile Strength</b>	1,290 psi (8.9 MPa)	ASTM C307 at 73°F (23°C) and 50% R.H
<b>Flexural Strength</b>	2,726 psi (18.8 MPa)	ASTM C580 at 73°F (23°C) and 50% R.H
<b>Chemical Resistance</b>	Please consult Sikafloor Technical Services.	
<b>Microbiological Resistance</b>	Resistance to Fungi Growth Rated 0 (no growth)	ASTM G21 at 73°F (23°C) and 50% R.H
	Resistance to Mold Growth Rated 10 (highest resistance)	ASTM D3273 at 73°F (23°C) and 50% R.H
<b>Coefficient of Friction</b>	3.02 x 10 <sup>5</sup> in/in/°F (5.43 x 10 <sup>5</sup> mm/mm/°C)	ASTM D696 at 73°F (23°C) and 50% R.H

# APPLICATION INFORMATION

## Coverage

Description	Products	Approximates Sq.Ft./kit
1. Body Coat	Sikafloor®-24 NA PurCem Sikadur®- 508 Aggregate	107@80mil 100 sq.ft. per bag
2. Receiver Coat	Sikafloor®-264 + Sika Decorative Flake	720@10 mils 2.16 bags per 4.5 gallon kit
3. Top Coat	Sikafloor®-217	720@10 mils
<b>Options</b>		
Primers	Sikafloor®-31 NA PurCem Sikafloor®-165 FS	224@15mils 2,667@3mils
Scratch Coat	Sikafloor®-24 NA PurCem Sikafloor®-511	215@40mils 888@15mils
Alternate Receiver Coat	+ Sikafloor®-SCO Color Add	3 quarts per 8.33 gallon ki
Alternate Top Coat	Sikafloor®-511 Sikafloor®-511 Sikafloor®-217	1,110@12mils 1,666@8mils 900@8mils
2 <sup>nd</sup> Top Coats	Sikafloor®-304 W NA Sikafloor®-340 Sikafloor®-315 N	595@5mils 6,000@4mils 2,400@4mils

Sikafloor®- PurCem Fast Set Sq.Ft coverage per kit is equivalent to standard Sikafloor®- PurCem

<b>Ambient Air Temperature</b>	Minimum/Maximum 40°/85°F (4°/30°C)
<b>Substrate Temperature</b>	Minimum/Maximum 40°/85°F (4°/30°C)
<b>Pot Life</b>	Please refer to the individual Product Data Sheet
<b>Waiting / Recoat Times</b>	Please refer to the individual Product Data Sheet

## PRODUCT INFORMATION

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

## 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 Sheet 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.

### Edge Terminations

All free edges of a Sikafloor PurCem floor, whether at the perimeter, along gutters or at drains, require extra anchorage to distribute mechanical and thermal stresses. This is best achieved by forming or cutting grooves in the concrete. Grooves should have a depth and width of 2 times thickness of the Sikafloor PurCem floor. Refer to the edge details provided at <http://usa.sika.com>.

If necessary, protect all free edges with mechanically attached metal strips. Do not feather edge, always turn into an anchoring groove.

### Expansion Joints

Expansion joints should be provided in the substrates at the intersection of dissimilar materials. Isolate areas subject to thermal stresses, vibration movements, or around load-bearing columns and at vessel sealing rings. Refer to details provided at <http://usa.sika.com>.

### Priming

Please refer to the individual Product Data Sheet for each component.

## MIXING

Please refer to the individual Product Data Sheet

#### Sika Corporation

201 Polito Avenue  
Lyndhurst, NJ 07071  
Phone: +1-800-933-7452  
Fax: +1-201-933-6225  
[usa.sika.com](http://usa.sika.com)

#### Sika Mexicana S.A. de C.V.

Carretera Libre Celaya Km. 8.5  
Fracc. Industrial Balvanera  
Corregidora, Queretaro  
C.P. 76920  
Phone: 52 442 2385800  
Fax: 52 442 2250537



#### System Data Sheet

Sikafloor® DecoDur Flake UEF  
May 2021, Version 01.01  
02081290000000115

## APPLICATION

Please refer to the individual Product Data Sheet

## 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.**

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling 1-800-933-7452.

SikafloorDecoDurFlakeUEF-en-US-(05-2021)-1-1.pdf

