



SYSTEM DATA SHEET

Sikafloor® DecoDur Flake UEF+

SELF-LEVELING URETHANE CEMENTITIOUS SLURRY, MOISTURE CONTROL, DECORATIVE FLAKE AND SEALED FINISH @ 3/16 – 1/4" (4.5 – 6.0 MM)

PRODUCT DESCRIPTION

Sikafloor® DecoDur Flake UEF+ is a 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 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 may be double broadcast for increased thickness. Finish surface options include: integral cove base, and variable surface texture to produce a range of slip-resistant finishes. Sikafloor® DecoDur Flake UEF+ typically installed @ 3/16 - 1/4 in (4.5 - 6 mm)

USES

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

- Pharmaceutical, biotech and research facilities
- Wet and dry process areas
- Lobbies, corridors and public spaces
- Laboratories, clean rooms Educational facilities
- Animal care and research
- Stadiums and arenas
- Chemical processing plants
- Restrooms and locker rooms
- Warehouses and storage areas

CHARACTERISTICS / ADVANTAGES

- Can be applied on green concrete (typically 7 -10 days) after preparation (see surface prep section) and where substrate has compressive strength of 3625 psi (25 MPa) with a minimum tensile strength of 218 psi (1.5 MPa).
- Can be applied to concrete when moisture content of concrete substrate is > 6% by mass (pbw - part by weight) as measured with Tramex CMC/CMEpert type concrete moisture meter.
- Can be applied to concrete substrates where <100% relative humidity is measured as per ASTM F2170.
- Similar coefficients 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).
- It may be applied as soon as the concrete can be prepared. Extra expansion joints are not necessary; maintain and extend existing expansion joints through the Sikafloor® DecoDur UEF+ Base System.
- Behaves plastically under impact, deforms but will not crack or debond.
- Achieves highest performance ratings according to ASTM G21 resistance to fungi and ASTM D3273 resistance to mold growth.
- Meets the requirements of USDA for use in food plants.
- Non-tainting, odorless.

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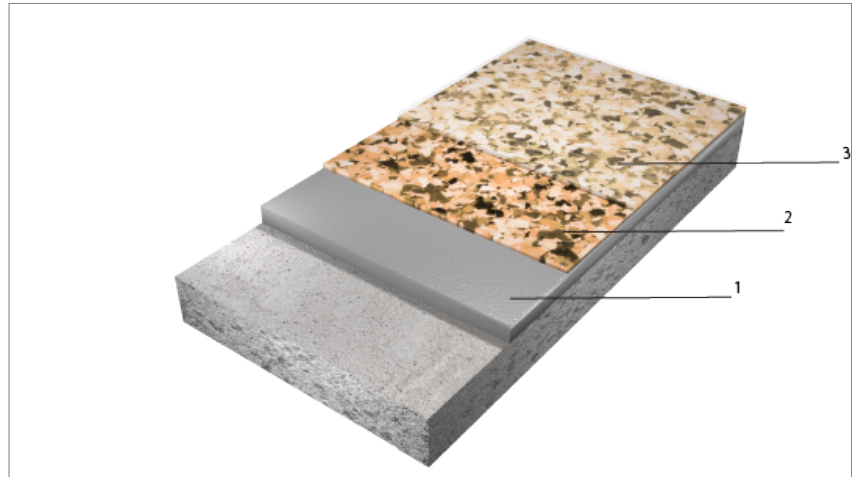
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SYSTEM INFORMATION

System Structure

Sikafloor® DecoDur Flake UEF+ ~ 3/16 – 1/4" (4.5 – 6 mm)



Description	Products	Thickness mils
1. Body Coat	Sikafloor®-22 NA PurCem + Sikadur®-508 Aggregate	3/16" - 1/4"
2. Receiver Coat	Sikafloor®-264 Thixo + Sika Decorative Flake	10 - 12
3. Top Coat	Sikafloor®-217	10 - 12
Options		
Description	Products	Thickness mils
Primers	Sikafloor®-31 NA PurCem*	15 - 20
Scratch Coat	Sikafloor®-2570 WB*	3 - 5
	Sikafloor®-24 NA PurCem*	40 - 60
Alternate Receiver Coat	Sikafloor®-510 LPL + Sikafloor® Urethane Pigment Pack	15 - 18
Alternate Top Coat	Sikafloor®-510 LPL**	12 - 15
2 nd Top Coats	Sikafloor®-510 LPL**	8 - 12
	Sikafloor®-217	8 - 12
	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 Thixo and Sikafloor®-217 may be replaced by Sikafloor®-510 LPL for greater UV resistance and fast cure time

*** Sikafloor®-304 W NA would be an optional 2nd top coat on top of Sikafloor®-217 for gloss reduction or

matte finish

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

Color	Available in various standard color blends, refer to Sikafloor® DecoFlake® color guide.
Nominal thickness	3/16" – 1/4" (4.5 – 6 MM)
Minimum thickness	3/16" (4.5 MM)

TECHNICAL INFORMATION

Water Absorption	0.10%	ASTM C413 at 73°F (23°C) and 50% R.H
Shore D Hardness	83	ASTM D2240 at 73°F (23°C) and 50% R.H
Abrasion Resistance	58 mg loss (CS-17/1000 rotations/1000g)	ASTM D4060 at 73°F (23°C) and 50% R.H
Indentation	~ 0%	MIL -PRF -24613 at 73°F (23°C) and 50% R.H
Compressive Strength	6,961psi (48 MPa) 28 days	ASTM 579 73°F (23°C) and 50% R.H
Tensile Strength	1,290 psi (8.9 MPa)	ASTM C307 at 73°F (23°C) and 50% R.H
Chemical Resistance	Please consult Sikafloor Technical Services.	
Microbiological Resistance	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
Thermal Conductivity	Pass	ASTM C884 at 73°F (23°C) and 50% R.H

APPLICATION INFORMATION

Coverage	Description	Products	Approximates Sq.Ft./kit
1. Body Coat		Sikafloor®-22 NA PurCem +	31 @ 3/16"
2. Receiver Coat		Sikadur®-508 Aggregate Sikafloor®-264 Thixo +	100 sq.ft. per bag 720 @ 10 mils
3. Top Coat		Sika Decorative Flake Sikafloor®-217	2.16 bags / 4.5 gallon kit 720 @ 10 mils
Options			
Description	Products	Approximates Sq.Ft./kit	
Primers	Sikafloor®-31 NA PurCem	224 @ 15 mils	
Scratch Coat	Sikafloor®-2570 WB Sikafloor®-24 NA PurCem	2,667 @ 3 mils 215 @ 40 mils	
Alternate Receiver Coat	Sikafloor®-510 LPL +	888 @ 15 mils	
Alternate Top Coat	Sikafloor® Urethane Pigment Pack Sikafloor®-510 LPL	3 quarts per 8.33 gallon kit 1,110 @ 12 mils	
2 nd Top Coats	Sikafloor®-510 LPL	1,666 @ 8 mils	
	Sikafloor®-217	900 @ 8 mils	
	Sikafloor®-304 W NA	595 @ 5 mils	
	Sikafloor®-340	6,000 @ 4 mils	
	Sikafloor®-315 N	2,400 @ 4 mils	
Ambient Air Temperature	Minimum/Maximum 40°/85°F (4°/30°C)		
Substrate Temperature	Minimum/Maximum 40°/85°F (4°/30°C)		

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

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

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- 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.

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.**

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