

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 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 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" (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
- Rest and locker rooms
- Warehouses and storage areas

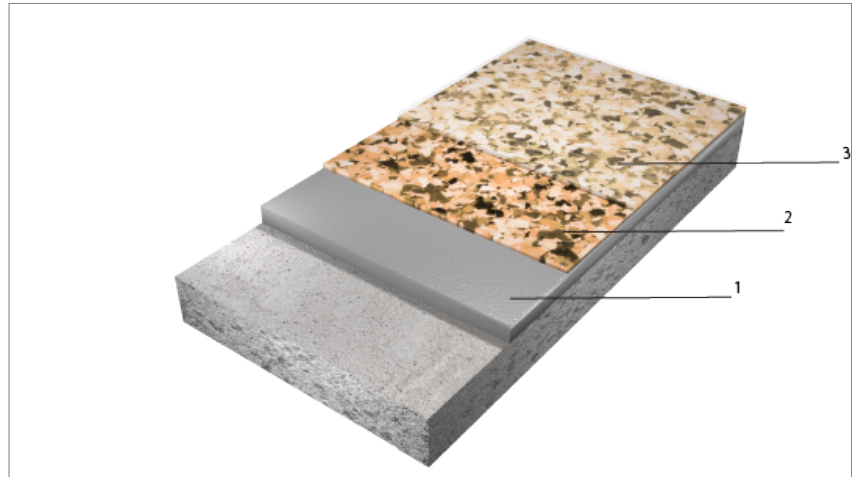
CHARACTERISTICS / ADVANTAGES

- Can be applied on green concrete (typically 7 -10 days) after preparation (see surface prep section) and where substrate has tensile bond strength in 3626 psi (25 MPa) with a minimum pull off strength of 218 psi (1.5 MPa).
- Can be applied to concrete when moisture content of concrete substrate must be > 4% by mass (pbwpart 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® 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.

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 + Sika Decorative Flake	10 - 12
3. Top Coat	Sikafloor®-217	10 - 12
Options		
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** Sikafloor®-511** Sikafloor®-217	12 - 15 8 - 12 8 - 12
2 nd Top Coats	Sikafloor®-304 W NA*** Sikafloor®-340 **** Sikafloor®-315 N****	5 - 8 4 - 6 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 2nd 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	3/16" – 1/4" (4.5 – 6 MM)
Minimum thickness	3/16" (4.5 MM)
Volatile organic compound (VOC) content	Please refer to the individual Product Data Sheet

TECHNICAL INFORMATION

Water Absorption	0.10%	ASTM C413 at 73°F (23°C) and 50% R.H
Shore D Hardness	80-85	ASTM D2240 at 73°F (23°C) and 50% R.H
Abrasion Resistance	CS-17/1,000 cycles/1,000 g -0.110g H-22/1,000 cycles/1,000 g -2.26g	ASTM D4060 at 73°F (23°C) and 50% R.H
Impact Strength	5,02 ft - lb (6.81 joules) at 1/8" (3 mm) of thickness	ASTM D2794 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	5,657 Psi (39 MPa) 28 days	ASTM C579 at 73°F (23°C) and 50% R.H:
Tensile Strength	1,045 psi (6.5 MPa)	ASTM C307 at 73°F (23°C) and 50% R.H
Flexural Strength	2,790 psi (8.9 MPa)	ASTM C580 at 73°F (23°C) and 50% R.H
Tensile Adhesion Strength	Pull -off Strength >254 psi (> 1.75 MPa) (substrate failure)	ASTM D4541 at 73° F (23° C) and 50% R.H
Chemical Resistance	Please consult Sikafloor Technical Services.	
Thermal Resistance	Pass	ASTM C884 at 73°F (23°C) and 50% R.H
Microbiological Resistance	Resistance to Fungi Growth Rated 0 (no growth) Resistance to Mold Growth Rated 10 (highest resistance)	ASTM G21 at 73°F (23°C) and 50% R.H ASTM D3273 at 73°F (23°C) and 50% R.H
Coefficient of Friction	0.69	ANSI 326.3
	Coefficient of Thermal Expansion 0.89 x 10 ⁵ in/in/°F (1.6 x10 ⁵ 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®-22 NA PurCem Sikadur®- 508 Aggregate	31@3/16" 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
Options		
Primers	Sikafloor®-31 NA PurCem Sikafloor®-2570	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 kit
Alternate Top Coat	Sikafloor®-511 Sikafloor®-511 Sikafloor®-217	1,110@12mils 1,666@8mils 900@8mils
2 nd 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

Ambient Air Temperature Minimum/Maximum 40°/85°F (4°/30°C)

Substrate Temperature Minimum/Maximum 40°/85°F (4°/30°C)

PRODUCT INFORMATION

Packaging Please refer to the individual Product Data Sheet

Shelf Life Please refer to the individual Product Data Sheet

Storage Conditions 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

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 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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