BUILDING TRUST

SYSTEM DATA SHEET

Sikafloor® DecoDur Quartz UEF

SELF-LEVELING THIN LAYER URETHANE CEMENTITIOUS SLURRY, MOISTURE CONTROL, DECORATIVE QUARTZ BROADCAST AND SEALED FINISH @ 5/32 - 3/16" (4.0 - 4.7 MM)

PRODUCT DESCRIPTION

Sikafloor® DecoDur Quartz UEF is a mult- layer moisture control and decorative quartz floor system. The first layer creates a moisture vapor tolerant barrier between the concrete substrate and finished with Sikafloor System that consists of a self-leveling, three component, cementitious urethane slurry, which is either finished smooth or broadcast to rejection with Sikafloor®-Decorative Quartz. The second layer is decorative color quartz broadcast, sealed with a high-performance epoxy, polyaspartic, or urethane finish. It is designed to provide excellent resistance to abrasion, impact, chemical attack and other physical abuse. Sikafloor® DecoDur Quartz UEF is broadcast with color quartz aggregate to increase surface texture, slip resistance and provide a decorative appearance. The system is typically installed @ 5/32 - 3/16'' (4.0 - 4.7 mm).

USES

Sikafloor® DecoDur Quartz 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

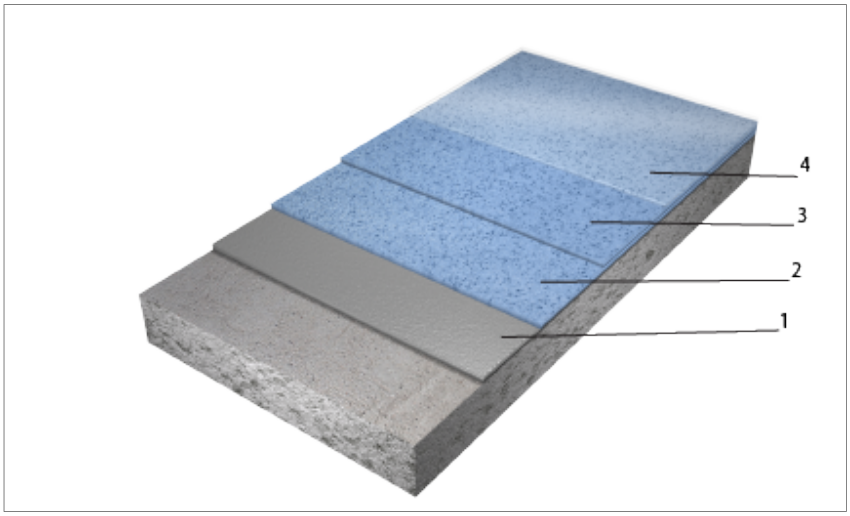
CHARACTERISTICS / ADVANTAGES

- 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).
- 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 Quartz UEF @ 5/32 - 3/16" (4.0 - 4.7 mm)



Description	Products	Thickness mils
1. Body Coat	Sikafloor®-24 NA PurCem + Sikafloor® Decorative Quartz	1/8 - 3/16"
2.Receiver Coat	Sikafloor®-217 + Sikafloor® Decorative Quartz	12 - 16
3. Grout Coat	Sikafloor®-217	12 - 16
4. Top Coat	Sikafloor®-315 N	4 - 6
Options		
Primers	Sikafloor®-31 NA PurCem*	15 - 20
	Sikafloor®-2570*	8 - 10
2nd Receiver Coat	Sikafloor®-511** + Sikafloor® Decorative Quartz	16 - 18
Top Coats	Sikafloor®-511**	12 - 16
	Sikafloor®-225 N***	12 - 16
2nd Top Coats	Sikafloor®-340****	4 - 6
	Sikafloor®-315 N ****	4 - 6
	Sikafloor®-304 W NA*****	5 - 8

* Primer coat required If applied with a smooth finish, and optional for broadcast system.
**Sikafloor-217 may be replaced by Sikafloor-511 for increased UV resistance, fast cure time
*** Sikafloor-217 may be replaced by Sikafloor-225 N for increased UV resistance
**** Sikafloor-340 and Sikafloor-315 N clear would be an optional 2nd top coat for increased chemical resistance
***** Sikafloor-304 W would be an optional 2nd top coat on top of Sikafloor-217 for gloss reduction or matte finish

Color

Available in various color patterns, refer to Sikafloor® Quartzite® Color Chart for details

Nominal thickness	5/32 -3/16" (4.0 - 4.7mm)
Minimum thickness	5/32 " (4.0 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	83	ASTM D2240 at 73°F (23°C) and 50% R.H
Abrasion Resistance	0.07 g (0.0025 oz) H-17/1000 cycles/1000 g (2.2 lb) 0.24 g (0.0084 oz) H-22/1000 cycles/1000 g (2.2 lb)	ASTM D4060 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
Flexural Strength	2,726 psi (18.8 MPa)	ASTM C580 at 73°F (23°C) and 50% R.H
Tensile Adhesion Strength	>400 psi (2.75 MPa) Pull-off Strength	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)	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	Coefficient of Thermal Expanshion 3.02 x 10^5 in/in/°Fm(5.43 x 10^5 mm/mm/°C) 0.248%	ASTM D696 at 73°F (23°C) and 50% R.H
Coefficient of Friction	0.77	ANSI A326.3 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	107@80mils
	Sikafloor® Decorative Quartz	1 bags per kit
2.t Receiver Coat	Sikafloor®-217 + Sikafloor® Decorative Quartz	600@12 mils 4.8 bags per 4.5 gallon kit
3. Grout Coat	Sikafloor®-217	600@12mils
4. Top Coat	Sikafloor®-316 N	2,400@4 mils
Options		
Primers	Sikafloor®-31 NA PurCem	224@15 mils
	Sikafloor®-2570	2,667@3mils
2nd Receiver Coat	Sikafloor®-511 + Sikafloor® Decorative Quartz	972@16mils 8.8 bags per 8.33 gallon kit
Top Coats	Sikafloor®-511	833@16mils
	Sikafloor®-225 N	1,500@15mils
2nd Top Coats	Sikafloor®-340	6,000@4mils
	Sikafloor®-315 N	2,400@4mils
	Sikafloor®-304 W NA	595@5mils

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

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 featheredge, 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.

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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