

SYSTEM DATA SHEET

Sikafloor® DecoDur Quartz TG

DECORATIVE EPOXY AND COLORED QUARTZ MORTAR ENGINEERED WITH SIKAFLOOR® - 217 @ 1/8" - 1/4" (3.2 - 6.3 MM)

PRODUCT DESCRIPTION

Sikafloor® DecoDur Quartz TG is a troweled floor system built with a high solids epoxy and colored quartz aggregates. The system produces a robust, decorative, low maintenance, seamless flooring with excellent durability and chemical resistance. Sikafloor® DecoDur Quartz TG is typically installed @ 1/18" - 1/4" (3.2 - 6.3 mm).

USES

Sikafloor® DecoDur Quartz TG may only be used by experienced professionals.

- Break rooms and cafeterias
- Pharmaceutical plants
- Laboratories
- Hospitals & health care facilities
- Educational facilities
- Locker rooms areas
- Prisons/correctional facilities
- Stadiums

CHARACTERISTICS / ADVANTAGES

- Lower maintenance and life cycle cost vs. other flooring options
- Tough, durable and seamless floor
- Customizable to compliment any decor
- Very low VOC
- A wide range of textures and finishes available
- Optional Integral cove base and curbs available
- Crack-bridging and waterproofing membrane options

SYSTEM INFORMATION

System Structure

Sikafloor® DecoDur Quartz TG ~ 1/8" - 1/4" (3.2 - 6.3 mm)



Description	Products	Thickness mils
1. Primer	Sikafloor®-161	8 - 10
2. Mortar	Sikafloor®-217 + Trowel Grade Quartz + Sikafloor® Decorative Quartz	1/8" - 1/4"
3. Grout Coat	Sikafloor®-217 Thixo Lite*	10 - 12
4. Top Coat	Sikafloor®-217 Thixo Lite	5 - 12

Options

Description	Products	Thickness mils
Primers	Sikafloor®-1620	12 - 15
	Sikafloor®-165 FS	8 - 10
2 nd Grout Coat	Sikafloor®-217 Thixo Lite*	5 - 12
Top Coats	Sikafloor®-511**	12 - 16
	Sikafloor®-340***	4 - 6
	Sikafloor®-315 N***	4 - 6
	Sikafloor®-304 W NA****	5 - 8

* Sikafloor®-217 Thixo Lite, second grout coat may be required

** Sikafloor®-217 Thixo Lite may be replaced by Sikafloor®-511 for greater UV resistance and faster cure time

*** Sikafloor®-340 and Sikafloor®-315 N clear would be an optional top coat

for increased chemical resistance

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

Nominal thickness	1/8" - 1/4" (3.2 - 6.3 mm)
Minimum thickness	1/8" (3.2 mm)

TECHNICAL INFORMATION

Water Absorption	0.3% (2 hours boiling)	ASTM C413 at 73°F (23°C) and 50% R.H
Shore D Hardness	80	ASTM D2240 at 73°F (23°C) and 50% R.H
Abrasion Resistance	0.085 mg loss (CS-17/1000 rotations/1000g)	ASTM D4060 at 73°F (23°C) and 50% R.H
Impact Strength	>160 in.lb	Gardner Impact Tester
Indentation	1.30%	(MIL-PRF-24613)
Compressive Strength	10,700 psi (73.8 Mpa)	ASTM C579 at 73°F (23°C) and 50% R.H
Tensile Strength	6,800 psi (46.9 MPa)	ASTM D638 at 73°F (23°C) and 50% R.H
Flexural Strength	3,520 psi (24.3 MPa)	ASTM C580 at 73°F (23°C) and 50% R.H
Reaction to Fire	Flammability Self Extinguishing	ASTM D635 at 73°F (23°C) and 50% R.H
Chemical Resistance	Contact Sika Technical Service for specific information.	
Thermal Conductivity	Coefficient of Thermal Expansion 2.3 x 10 ⁵ in/in/°F	ASTM C531 at 73°F (23°C) and 50% R.H

APPLICATION INFORMATION

Coverage	Description	Products	Approximates Sq.Ft./kit
	1. Primer	Sikafloor®-161	900@8 mils
	2. Mortar	Sikafloor®-217 + Trowel Grade Quartz + Sikafloor® Decorative Quartz	420@3/16" 4.8 bags per 4.5 gallon kit 1.2 bags per 4.5 gallon kit
	3. Grout Coat	Sikafloor®-217 Thixo	720@10 mils
	4. Top Coat	Sikafloor®-217 Thixo	1,440@5 mils

Options

Description	Products	Approximates Sq.Ft./kit
Primers	Sikafloor®-1620	533@12 mils
	Sikafloor®-165 FS	1,000@8 mils
2 nd Grout Coat	Sikafloor®-217 Thixo Lite	1,440@5 mils
Top Coats	Sikafloor®-511	1,110@12 mils
	Sikafloor®-340	6,000@4 mils
	Sikafloor®-315 N	2,400@4 mils
	Sikafloor®-304 W NA	595@5 mils
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Ambient Air Temperature	Minimum/Maximum 50/85 °F (10/30 °C)	
Substrate Temperature	Minimum/Maximum 50/85 °F (10/30 °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.

AVAILABILITY/WARRANTY

Sikafloor System Sheets describe a series of Sikafloor products installed in progression. For specific information on the individual products mentioned, including Mixing, Application, Chemical Warnings, First Aid, Handling & Storage, and Clean Up please refer to the individual Product Data Sheet, available at www.sikafloorusa.com. System sheets are updated periodically.

To ensure the most current version is being used, visit Technical Resources on www.sikafloorusa.com. Proper material application is the responsibility of the user. Site visits made by Sika personnel are for making technical recommendations only and not for supervising or providing quality control. Before applying for protection against specific chemical environments, consult the Chemical Resistance Guide or Sika Technical Service.

LIMITATIONS

- Minimum/Maximum substrate temperature: 60°F/85°F (15.5°C/30°C)
- Maximum relative humidity: 60°F/85°F (15.5°C/30°C)
- Substrate temperature must be 5°F (3°C) above measured dew point
- Freshly applied Sikafloor materials should be protected from dampness, condensation and water for at least 24 hours
- Will discolor over time when exposed to sunlight (UV) and under certain artificial lighting conditions. UV resistant, light stable topcoats are available where ultimate color/clarity retention is required

- This product is not designed for exterior use, immersion, or any use where moisture can reach the underside of the coating
- Do not thin this product. Addition of thinners will slow down the cure and reduce the ultimate properties of this product.

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.

Primer

Priming for concrete substrate is required. Prime with

either Sikafloor®-160, Sikafloor®-161, Sikafloor®-1620 or Sikafloor®-165 FS.

Allow the primer to cure (varies with temperature and humidity) until tack free before applying subsequent membrane 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.

Mortar

Premix each component separately. Measure out 32 ounces (1 quart) of Sikafloor®-217 Part A and 16 ounces (1 pint) of Sikafloor®-217 Part B. Pour A and B into a clean 5 gallon metal bucket. Mix with a very low speed jiffy mixer, mix for 2 to 3 minutes and until uniform. Be careful not to introduce any air bubbles while mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in mortar.

During the mixing operations, scrape down the sides and bottom of the container with a flat or straight edge trowel to ensure complete mixing. Add two gallons of trowel grade quartz aggregate and one gallon Sikafloor® Decorative Quartz mix for an additional minute and until uniform. Mix only that quantity that can be used within its pot life and until uniform.

Place mixed mortar using a screed box, gauge rake, or steel trowel. Place as evenly as possible. Using a power trowel (with plastic blades) or a steel trowel by hand compact the mortar. Do not over trowel and do not finish the last 3 - 4 inches of the placed mortar path, as this will make the transition of the next pass of mortar more difficult to finish. Use floor lights to examine finished work closely to assure complete closing and to identify any trowel marks or imperfections. No holes or tear marks should be visible. After cure scrape with the edge of a steel trowel any high rough spots and sweep and vacuum the surface.

Grout Coat

Sikafloor®-217 Thixo Lite: Mixing Ratio - 2 : 1 by volume. Premix each component separately. Empty Component B (Hardener) in the correct mix ratio into Component A (Resin). Mix the combined components for at least 3 minutes and until uniform using a low speed drill (300–450 rpm) and Exomixer or Jiffy type paddle suited to the volume of the mixing container to minimize

entrapped air. Be careful not to introduce any air bubbles while mixing.

Make sure the contents are completely mixed to avoid any weak or partially cured spots in the coating. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing.

Apply with a flat rubber squeegee or flat metal trowel tightly over a smooth surface. Back rolling may cause bubbling and leave roller marks. Product has a limited Pot Life, see Typical Data. Do not apply by dipping roller into mixing container.

Top Coat

Sikafloor®-217 Thixo Lite is applied with a flat or notched rubber squeegee over a smooth surface. Back rolling is typically done with an 18 in. (455 mm) wide short nap, 3/16 or 1/4 in. (4 to 6 mm), solvent-resistant roller cover. Back roll the Sikafloor®-217 Thixo Lite only to level the squeegee applied material. Over-rolling and late back rolling may cause bubbling and leave roller marks.

Note: The orange peel texture finish texture peak through height will vary depending on the mill thickness and type of roller used. Do not apply the material above the recommended thickness, cloudiness/whitening may occur.

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.

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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.

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System Data Sheet

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