

Sikafloor® Decoflake 40315

Description Sikafloor Decoflake 40315 is a single broadcast (nominal 40 mils) vinyl flake system consisting of a combination of high solids epoxy, Sikafloor 203 pigmented basecoat, broadcast to refusal with vinyl flakes, sealed with Sikafloor 225 a UV resistant epoxy topcoat, finished with Sikafloor 315, a high solids, abrasion resistant, aliphatic polyurethane coating. The system produces a decorative UV resistant, easy to install and maintain, seamless floor with excellent abrasion and chemical resistance.

Where to Use

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

Advantages

- Lower maintenance and life cycle cost vs. tile, sheet goods, and carpet
- Tough, durable and seamless floor
- Attractive permanent multicolored patterns
- Low odor
- Variety of textures available
- (Optional) Integral cove, base and curbs
- (Optional) Crack-bridging/waterproofing flexible membrane

Typical Data (Sikafloor 315 Topcoat)

Shelf Life	2 years in original unopened container under proper storage conditions. Store dry between 40° - 90°F (5° - 32°C).							
Coverage	Coverage of materials on a primed or prepared substrate will vary depending on the porosity or density, profile and texture of the substrate. Sikafloor 315 is applied at 3-3.5 wet mils. The dry film thickness is 2.7-3.1 mils. The theoretical coverages are:							
Cure Rate @ 75°F (24° C), 50% RH	<p>Sikafloor 315 Clear 1.5-gallon kit = 740 SF (493 sq. ft./gal.) Applied at 3-3.5 wet mils.</p> <table border="0"> <tr> <td>Tack Free</td> <td>5-6 hours</td> </tr> <tr> <td>Dry Hard</td> <td>8-10 hours</td> </tr> <tr> <td>Full Cure</td> <td>5-7 days</td> </tr> </table>		Tack Free	5-6 hours	Dry Hard	8-10 hours	Full Cure	5-7 days
Tack Free	5-6 hours							
Dry Hard	8-10 hours							
Full Cure	5-7 days							
Physical Properties:								
Abrasion Resistance <i>(Taber Abraser 1000 gm. load per wheel)</i>	ASTM D 4060	CS-17 Wheels 10-20 mgs./1000 cycles						
Hardness	(ASTM D 3363 Pencil)	2H to 3H						
Adhesion - Primed Concrete	350 psi (2.4 MPa) - concrete failure							
Gloss	(60°) 60-70							
Coefficient Of Friction	ASTM 2047	.60-.70						
Dry Film Thickness	2.88 mils @ 3.2 wet mil application thickness							
Tensile Strength	ASTM D2370	2882 psi.						
Percent Elongation	ASTM D2370	2.29						
VOC (g/l)	ASTM D2369-07	114 g/l						

Packaging:

Component	Container Size	Code
1.5-gallon (5.6 liters) Clear Kit		
Part H	Quart Can (0.94 liters)	UR 9100-B/Q or UR 9100LS-B/Q
Part R	1-gallon (3.8 liters)	UR 9100-A/1
Part D Wear Additive	Half gallon (1.9 liter)	F-5/HG
4.5-gallon (17.0 liters) Clear Kit		
Part H	Half Gallon Can (1.9 liters)	UR 9100-B/HG or UR 9100LS-B/
Part R	5-gallon pail (18.9 liters)	UR 9100-A/5
Part D Wear Additive	Half gallon (1.9 liter)	F-5/HG (requires 3)



Chemical Resistance	Before applying for protection against specific chemical environments, consult Sikafloor 315 Chemical Resistance Guide or refer to the Chemical Resistance Guide of the top coat applied or contact Sika Technical Services at 800-933-SIKA (7452).
How to Use Surface Preparation	Surface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes and any other contaminants. All projections, rough spots, etc. should be dressed off to achieve a level surface prior to the application. Concrete - Should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by shot blasting or equivalent mechanical means. (CSP-3 as per ICRI guidelines). Sweep and vacuum any remaining dirt and dust with a wet/dry vacuum. Removing residual dust will help ensure a tenacious bond between the primer and substrate. Whenever "shot-blasting" is utilized, be careful to leave concrete with a uniform texture. Over "blasting" will result in reduced coverage rates of the primer and/or subsequent topcoats. It is also possible that the texture of the "shot-blast pattern" may show through the last coat. This is known as "tracking". The compressive strength of the concrete substrate should be at least 3500 psi (24 MPa) at 28 days and at least 250 psi (1.7 MPa) in tension at the time of application of Sikafloor 107.
System Coverage	Primer: Sikafloor 107: 200-250 sq.ft./gal. Body Coat: Sikafloor 203 Pigmented: 160 sq.ft./gal. Broadcast 15 lbs. vinyl flakes quartz per 100 sq.ft. Top Coat: Sikafloor 225: 100-150 sq.ft./gal., Final Topcoat: Sikafloor 315: 493 sq. ft./gal.
Cure Mechanism	Primer: Sikafloor 107: At 75°F (24°C), the primed area should be ready for foot traffic within 6-8 hours. Body Coat: Sikafloor 203: At 75°F (24°C), the body coat should be ready for foot traffic within 12 hours. Top Coat: Sikafloor 225: At 75°F (24°C), allow 8 hours for foot traffic and 24 hours for light traffic. For heavy traffic and/or chemical spillages allow 72 hours. Top Coat: Sikafloor 315: At 75°F (24°C), allow 8 hours for foot traffic and 24 hours for light traffic. For heavy traffic and/or chemical spillages allow 72 hours.
Mixing	It is important to remember that these products have a limited pot life. Therefore it is recommended to check and make sure everything is in order before starting the mixing sequence. Primer and Body Coat: Sikafloor 107 and Sikafloor 203: (3-gal unit) Sikafloor 203: (3-gal unit) Carefully empty the contents of the Part "H" Hardener entirely into the can of Part "R" Resin. The Part "R" container is oversized to allow for easy mixing. Bulk Kits: For bulk packaging when not mixing full units each component must be premixed separately to ensure product uniformity. Color Additives: If color is desired, the appropriate Sikafloor Epoxy Color Additive is added to the "Color Base" Part "R" Resin at a rate of 1 quart per 3 mixed gallons for all colors except for white, yellow or bright red. These will require 2 quarts per batch. Refer to the Epoxy Color Add Data Sheet for specific ratios. Mix at low speed for a minimum of two minutes. Measure the correct volume of Part "R" and Part "H" into a clean pail, 2 Parts R to 1 Parts H by volume. Mix with a low speed jiffy mixer (300-450 rpm), until completely blended. This will take about 2 to 3 minutes. 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 coating. During the mixing operations, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing. Mix only that quantity that can be used within its pot life. Top Coat: Sikafloor 225: Carefully empty the contents of the Sikafloor 225, Part "H" Hardener entirely into the can of Sikafloor 225, Part "R" Resin. The Part "R" container is oversized to allow for easy mixing. For bulk packaging when not mixing full units each component must be premixed separately to ensure product uniformity. Add 2 Parts R to 1 Part H by volume to a clean mixing pail. Mix with a very low speed jiffy mixer, until completely blended. This will take about 2 - 3 min. Be careful not to introduce air bubbles while mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in coating. During the mixing operations, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing. Mix only that quantity that can be used within its pot life.
Application	Refer to Sikafloor 107 data sheet for primer application. Body Coat: Sikafloor 203 should be applied by first pouring a bead of material in the form of a ribbon on the surface to be coated. Using a notched squeegee, flat squeegee, or trowel spread the poured material at a rate of approximately 160 sq.ft. per gallon. Apply as evenly as possible, working from left to right, and then back. Back roll using a high quality 3/8" nap roller. Broadcast vinyl flakes into freshly applied Sikafloor 203 in a "rainfall pattern" to excess. After the body coat has cured, sweep and vacuum excess flakes. Top Coat: Sikafloor 225 is applied by first pouring a bead of material in the form of a ribbon on the surface to be coated. The material should not be left in the container too long because it will set faster thus reducing the pot life. Using a notched squeegee, flat squeegee, or trowel spread the poured material at a rate of approximately 120 sq. ft. per gallon. Apply as evenly as possible, working from left to right, and then back. Back roll using a high quality 3/8" nap roller. Roll with a plastic loop roller after 5-10 minutes to remove excess bubbles. Back roll the Sikafloor 225 only to level the squeegee applied material; over-rolling will cause bubbling.



Final Topcoat: Sikafloor 315: The floor should be divided into sections that can be completed without stopping. Sections should be divided at expansion joints or doorways when possible. The end of a section should be taped off to form a straight line providing a clean edge for an adjacent section. The Sikafloor 315 must be applied with a 3/8" nap roller. The roller should be wet in a roller tray or bucket and then the excess coating is removed by lightly rolling in the tray or bucket screen so as to avoid drips. Then apply 3 pairs of 8-10 foot long paths on to the floor. Then spread the material with roller passes perpendicular to the paths of coating. This material may be aggressively rolled to even the thickness. It is extremely important to apply the coating at a rate of 3-3.5 mils to achieve proper appearance, texture, and color development. If areas are too thick, the coating may blister, if too thin, the coating will appear very flat in sheen. It is also very important to remix the material often with the roller in the tray to keep the F-5 aggregate from settling. Cross roll the entire area with straight uninterrupted passes across the entire width of the floor. This will reduce roller marks and make the color even. If appearance is still not uniform after a few of these passes, repeat this procedure.

Limitations

- Minimum/Maximum substrate temperature: 60°F/85°F (15.5°C/30°C).
- Maximum relative humidity: 85%.
- Substrate temperature must be 5°F (3°C) above measured dew point.
- Conduct quantitative anhydrous calcium chloride testing in accordance with ASTM-F1869. Maximum acceptable test result is 5 pounds per 1,000 ft² per 24 hours. Determine the surface moisture content by using an impedance moisture meter designed for use on concrete as detailed in ASTM E-1907. Acceptable test results shall be 4% by mass or less. If over, use Sikafloor EpoCem 81/82.
- Freshly applied Sikafloor 107, 225 and 315 should be protected from dampness, condensation and water for at least 24 hours.
- 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.

Additional Info

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'S TECHNICAL 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 Chemical Resistance Guide or Sika Technical Service.

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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 Technical Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKASHALL NOT BELIEABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKASHALL 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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