

Sikafloor® Morritex HD

Description	Sikafloor MORRITEX™ H.D. is a monolithic solid color flooring system that is designed to be installed between 1/16" and 3/16" at varying degrees of surface texture. The system offers chemical resistance and high compressive strength, which accepts heavy abuse from impact and heavy loading.
Where to Use	<ul style="list-style-type: none">■ Chemical processing facilities■ Pharmaceutical facilities■ Sewage & water treatment plants■ Animal laboratories & housing■ Automotive maintenance facilities■ Manufacturing Areas
Advantages	<ul style="list-style-type: none">■ Lower maintenance and life cycle cost vs. tile, sheet goods, and carpet■ Tough, durable and seamless floor■ High compressive strength■ Protects substrate from chemical or physical attack■ Low odor■ Variety of textures available■ (Optional) Integral cove, base and curbs■ (Optional) Crack-bridging/waterproofing flexible membrane
Chemical Resistance	Before applying for protection against specific chemical environments, consult Sikafloor 203 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.

Typical Data

Compressive Strength	ASTM C-579	10,400 psi (72 MPa)
Tensile Strength, Binder	ASTM D-638	7,250 psi (50 MPa)
Impact Resistance	Gardner Impact Tester	>160 in•lb
Abrasion Resistance	ASTM D-4060	0.105 gm
Bond Strength	ASTM D-4541	>400 psi (2.76 MPa) (100% concrete failure)
Flammability	ASTM D-635	Self Extinguishing
Water Absorption	ASTM C-413-88	0.2%
Coefficient of Thermal Expansion	ASTM C-531-90	1.32 x 10 ⁻⁵ in/in/°F
Flexural Strength	ASTM C-580-90	3,200 psi (22 MPa)
Curing Shrinkage	ASTM D-531-90	3.75 x 10 ⁻⁴ in/in
Shore D Hardness	ASTM D-2240-91	85

Above typical values based on 7 days cure @ 75 °F

Shelf Life: 2 years in original unopened container under proper storage conditions. Store dry between 40° - 90°F (5° - 32°C).

Packaging: Sikafloor 107, 203 and 207 are available in 6-US gallon, 15-US gallon, and 165-US gallon kits. Broadcast sand is packaged in 50 lb. bags.

Industrial Flooring



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System Coverage	<p>Primer: Sikafloor 107: 200 - 250 sq.ft./gal.</p> <p>Body Coat: Sikafloor 207 Slurry: Sikafloor 207 pigmented mixed with F62 sand at a 1 to 1 volumetric ratio. One gallon of mixed pigmented Sikafloor 207 to one gallon of F62 will yield approximately 1.6 liquid gallons of slurry. Sikafloor 207 slurry is broadcasted to refusal with 35 mesh sand.</p> <p>Top Coat: Sikafloor 203 Pigmented: 70-115 sq.ft./gal., depending on desired texture.</p>
Cure Mechanism	<p>Primer: Sikafloor 107: At 75°F (24°C), the primed area should be ready for foot traffic within 6-8 hours.</p> <p>Body Coat: Sikafloor 207 Pigmented Slurry: At 75°F (24°C), the body coat should be ready for foot traffic within 12 hours.</p> <p>Top Coat: Sikafloor 203: At 75°F (24°C), allow 12 hours for foot traffic and 24 hours for light traffic. For heavy traffic and/or chemical spillages allow 72 hours.</p>
Mixing	<p>Primer: Sikafloor 107: (3-gallon 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 pre-mixed separately to ensure product uniformity. Measure two Parts R to one Part H by volume into a clean pail. 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.</p> <p>Body Coat and Topcoat: Sikafloor 203 and 207 Pigmented Slurry: For bulk packaging when not mixing full units each component must be pre-mixed separately to ensure product uniformity. It is important to remember that this coating has a limited pot life. Therefore it is recommended to check and make sure everything is in order before starting the mixing sequence. For 15 and 165 gallon kits, add two parts Resin (Part R) and one part Hardener (Part H) by volume to a clean mixing container. Do not count Epoxy Color Additive in the volume ratio. Color Additives: If color is desired, the appropriate Sikafloor Epoxy Color Additive is added to the "Clear" Part "R" Resin at one quart per three mixed gallons. Mix at low speed for a minimum of two minutes. 1. 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 (3 gallon kit only). 2. Mix with a very low speed jiffy mixer, 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. Self-leveling Slurry: add F-62 (Part C) to the blended components R and H at a 1 to 1 volumetric ratio. Mix for 90 seconds once all ingredients are combined, using the above mentioned mixer.</p>
Application	<p>Primer: Sikafloor 107: Apply Sikafloor 107 primer using a trowel or squeegee and backroll at the rate of 250-300 square feet per mixed gallon (23 - 27 m²/L) at 5 - 6 mils wet film thickness. Coverage will vary depending on the porosity of the prepared floor. This product has a limited pot life. Product should not be applied by dipping roller into kit container, but by pouring a bead of product in the form of a ribbon on the surface to be coated.</p> <p>Body Coat: Sikafloor 207 Pigmented Slurry: Pour a ribbon of the mixed Sikafloor 207 body coat slurry on the previously prepared and primed surface. Spread evenly over floor with a steel trowel, gauge rake or notched squeegee. It will be necessary to drill the slurry mix with a jiffy periodically, to keep the quartz aggregate suspended. Broadcast 35 mesh sand into freshly applied Sikafloor 207 slurry mix by hand, in a "rainfall pattern". Broadcast sand to excess. After the body coat has cured, sweep and vacuum excess quartz.</p> <p>Top Coat: Sikafloor 203: This product 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 70-115 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.</p>



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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, 207 and 203 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.

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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1-800-933-SIKA NATIONWIDE

Regional Information and Sales Centers. For the location of your nearest Sika sales office, contact your regional center.

Sika Corporation
201 Polito Avenue
Lyndhurst, NJ 07071
Phone: 800-933-7452
Fax: 201-933-6225

Sika Canada Inc.
601 Delmar Avenue
Pointe Claire
Quebec H9R 4A9
Phone: 514-697-2610
Fax: 514-694-2792

Sika Mexicana S.A. de C.V.
Carretera Libre Celaya Km. 8.5
Fracc. Industrial Balvanera
Corregidora, Queretaro
C.P. 76920
Phone: 52 442 2385800
Fax: 52 442 2250537

