

# Sikafloor® Quartzite 1100

<b>Description</b>	Sikafloor Quartzite 1100 is a 3/16" troweled applied floor system consisting of high solids epoxy and multicolored quartz aggregates. The system produces a decorative, easy to install and maintain, seamless flooring with excellent durability and chemical resistance.
<b>Where to Use</b>	<ul style="list-style-type: none"><li>■ Break rooms and cafeterias</li><li>■ Pharmaceutical plants</li><li>■ Laboratories</li><li>■ Hospitals &amp; health care facilities</li><li>■ Educational facilities</li><li>■ Shower and locker areas</li><li>■ Prisons/correctional facilities</li><li>■ Stadiums</li></ul>
<b>Advantages</b>	<ul style="list-style-type: none"><li>■ Lower maintenance and life cycle cost vs. tile, sheet goods, and carpet</li><li>■ Tough, durable and seamless floor</li><li>■ Multicolored patterns</li><li>■ Low odor</li><li>■ Variety of textures available</li><li>■ (Optional) Integral cove, base and curbs</li><li>■ (Optional) Crack-bridging/waterproofing flexible membrane</li></ul>
<b>Chemical Resistance</b>	Before applying for protection against specific chemical environments, consult Sikafloor 215 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)
<b>How to Use Surface Preparation</b>	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

<b>Compressive Strength</b>	ASTM C-579	10,700 psi (73.8 MPa)
<b>Tensile Strength</b>	ASTM D-638-91	6,800 psi (46.9 MPa)
<b>Impact Resistance</b>	Gardner Impact Tester	>160 in•lb
<b>Abrasion Resistance</b>	ASTM D-4060	0.085 gm
<b>Flammability</b>	ASTM D-635	Self Extinguishing
<b>Water Absorption</b>	ASTM C-413-88	0.3%
<b>Coefficient of Thermal Expansion</b>	ASTM C-531-90	2.3 x 10 <sup>-5</sup> in/in/°F
<b>Flexural Strength</b>	ASTM C-580-90	3,520 psi (24.3 MPa)
<b>Curing Shrinkage</b>	ASTM D-531-90	5.0 x 10 <sup>-4</sup> in/in
<b>Shore D Hardness</b>	ASTM D-2240-91	80

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 215 Resin and Hardener components are available in pre-proportioned 3-US gallon, 15-US gallon, and 165-US gallon kits. Trowel Grade Quartz is packaged in 50 lb. bags. Broadcast Grade Quartz is packaged in 50 lb. bags.

Industrial Flooring



**Sika**®

<b>System Coverage</b>	<p><b>Primer:</b> Sikafloor 107: 200 - 250 sq.ft./gal.</p> <p><b>Body Coat:</b> Sikafloor 215 Quartz Mortar: (2 quarts Resin, 1 quart Hardener, 4 gallons or 40 lbs. of trowel grade quartz and 1 gallon or 5 lbs. of broadcast grade quartz. 40 to 50 sq.ft.</p> <p><b>First Grout Coat:</b> Sikafloor 203: 80-100 sq.ft./mixed gal.</p> <p><b>Second Grout Coat:</b> Sikafloor 203: 120-175 sq.ft./mixed gal.</p> <p><b>Top Coat:</b> Sikafloor 215: 400 sq.ft./mixed gal.</p>
<b>Cure Mechanism</b>	<p><b>Primer:</b> Sikafloor 107: At 75°F (24°C), the primed area should be ready for foot traffic within 6-8 hours.</p> <p><b>Body Coat:</b> Sikafloor 215 Mortar: At 75°F (24°C), the body coat should be ready for foot traffic within 12 hours.</p> <p><b>Grout Coat:</b> Sikafloor 203: At 75°F (24 C), the grout coat should be ready for foot traffic within 12 hours.</p> <p><b>Top Coat:</b> Sikafloor 215: 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>
<b>Mixing</b>	<p><b>Primer:</b> 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><b>Body Coat:</b> Sikafloor 215 Quartz Mortar: Add two quarts Sikafloor 215 Resin to one quart Sikafloor 215 Hardener to a clean 5 gallon mixing pail. 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. Add two gallons of trowel grade quartz aggregate and one gallon of broadcast grade quartz mix for an additional minute. Mix only that quantity that can be used within its pot life.</p> <p><b>Grout Coat and Topcoat:</b> Sikafloor 203 &amp; 215: (3-gallon units) 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: Measure the correct volume of Part “R” and Part “H” 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.</p>
<b>Application</b>	<p><b>Primer:</b> 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 m<sup>2</sup>/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><b>Sikafloor 215 Quartz Mortar:</b> 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. Power troweling is highly recommended to provide maximum density. 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 Coats; (Recommended 2 grout coats to satisfy mortar)</p> <p><b>Grout Coat:</b> Sikafloor 203: This product should be applied by first pouring a bead of material in the form of a ribbon on the cured Sikafloor 215 Quartz Mortar. Using a flat squeegee, or spring steel trowel, spread the Sikafloor 203 material at a rate of approximately (First Grout Coat) 80-100 sq. ft. per gallon (Second Grout Coat) 120-175 sq.ft. per gallon. Apply as evenly as possible, working from left to right, and then back. Do not back roll. Light sanding may be required between coats, followed by vacuuming. Sikafloor 215 Quartz Mortar should be fully grouted prior to the application of the top coat.</p>



**Top Coat:** Sikafloor 215: This product should be applied by first pouring a bead of material in the form of a ribbon on the cured grout coat. Using a flat squeegee, or spring steel trowel, spread the poured material at a rate of approximately 400 sq.ft./mixed gal. Back roll using a 1/4"-3/8" solvent resistant cover, apply evenly to obtain a uniform texture.

## 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 ft<sup>2</sup> 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, 203 and 215 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](http://www.sikafloorusa.com). System sheets are updated periodically. To ensure the most current version is being used, visit Technical Resources on [www.sikafloorusa.com](http://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.

**KEEP CONTAINER TIGHTLY CLOSED • KEEP OUT OF REACH OF CHILDREN • NOT FOR INTERNAL CONSUMPTION • FOR INDUSTRIAL USE ONLY**

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**Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Technical Data Sheet, product label and Material Safety Data Sheet which are available online at [www.sikafloorusa.com](http://www.sikafloorusa.com) or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Technical Data Sheet, product label and Material Safety Data Sheet prior to product use.**

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. SIKASHALLNOTBELIABLEUNDERANYLEGALTHEORYFORSPECIALORCONSEQUENTIALDAMAGES. SIKASHALLNOTBERESPONSIBLE 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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