

Sika® ComfortFloor

Description	Sika ComfortFloor is an ergonomic, sound dampening, low emission floor which is UV stable, aesthetically pleasing, easy to care for and to maintain while contributing to project LEED certification. ComfortFloor is an 80-120 mil, seamless, fluid applied urethane floor system comprised of 100% solids epoxy primer, pigmented self leveling urethane wear course and a wear resistant, pigmented water based urethane topcoat.
Where to Use	Particularly suitable for all commercial and public buildings including healthcare facilities, schools, retail spaces, laboratories, nursing facilities, showrooms, lobbies, museums and office space. For interior use only.
Advantages	<ul style="list-style-type: none"> ■ Exceedingly low VOC emission ■ Flexible and resilient ■ Good acoustic isolation ■ Good mechanical resistance ■ Good UV resistance ■ Reduces footfall sound ■ Attractive colors available using pigmented UV stable topcoat ■ Solvent Free ■ Contains Rapidly Renewable raw material ■ Non shrinking after cure ■ High strength ■ Low maintenance and life cycle cost versus tile, sheet goods and carpet ■ Tough, durable and seamless floor ■ (Optional) Integral cove base and curbs ■ Excellent adhesion in areas with heavy traffic and rolling loads such as carts, gurneys and wheelchairs ■ Use of this SikaFloor system can help contribute to project LEED certification
Chemical Resistance	Sika ComfortFloor must be sealed with Sikafloor 305 W or another suitable Sikafloor topcoat. For chemical resistance of the system, please consult the appropriate topcoat chemical resistance chart by visiting www.sikafloorusa.com or contacting Sika Technical Service at 1-800-933-SIKA.

Typical Data

Chemical Base	PUR
Bond Strength	> 500 psi (concrete failure) (ASTM D-4541)
Hardness	≤ 80 (14 days / +23°C) (ASTM D-2240, Shore A)
Impact Resistance	>160 in/lbs (ASTM D-4226)
Impact Sound Reduction	2 dB (ISO 140-8)
Impact Insulation Class (IIC)	37 (8" slab no ceiling) (ASTM E492-09/ASTM E989-06) 52 (w/1 layer 5/8" gypsum board ceiling) (ASTM E492-09/ASTM E989-06) 33 (6" slab no ceiling) (ASTM E492-09/ASTM E989-06)
Increased Impact Insulation (ΔIIC)	7 (ASTM E2179)
Sound transmission Class (STC)	52 (ASTM E90-04/ASTM E413-04)
Noise Reduction Coefficient (NRC)	.05 (ASTM C423-09A/ASTM E795-05)
Crack Bridging/Elongation	passed (ASTM C-1305)
Elongation at Break	180 %
VOC Content	Sikafloor 107 Primer - 0 g/l Sikafloor 330 - 10 g/l Sikafloor 305 W - 30 g/l
Closed Chamber Emissions	Passed (California 01350 - 14 day)
Closed Chamber Emissions	Passed (ISO 16000-6 - 28 day)
Physiological Harmlessness	Passed (DIN EN 71 Teil 3)
Gloss of 304W Topcoat	5-15 (ASTM D-523, 60°)
Coefficient Of Friction	> 0.60 (ASTM D-2047)
Resistance to Chair Castors	No damage (EN 425)
Abrasion Resistance	≤ 0.04gm (CS-17, 1000 gms, 1000 cycles) (ASTM D-4060)
Installed Thickness	80 - 120 mils (2 - 3 mm)
Static Load Limit / Residual Indentation	≤ 0.002 in (800 lb load) (ASTM F-970)
Flammability	Class I (ASTM E-648)
Smoke Density	<450 (ASTM E662)
Resistance to Heat	Δ E 0.3 (7 days at 158°F/70°C) (ASTM F-1514)
Compatibility w/Underfloor Heating Systems	Very good
Thermal Insulation	Very good
Cure Rate	Light Foot traffic - 12 hours Normal operations - 48 hours
Shelf Life:	When stored in recommended storage conditions, in original factory sealed cans, shelf life is 1 year.
Packaging:	Liquid components are packaged in pre-proportioned kits.
Colors:	Refer to Sika ComfortFloor Color Card.

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 and concavities should be filled. Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor, Sikadur and Sikagard range of materials. 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 shotblast 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.

Application

Please refer to component technical data sheets for specific information regarding the following products.

Sikafloor 107 Primer: Sikafloor 107 Primer is poured and spread evenly by roller, trowel or squeegee at the rate of 160-320 square feet per mixed gallon at 5 - 10 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.

Sikafloor 330: Sikafloor 330 is poured and spread evenly at a thickness of 80 mils by means of a serrated trowel, Swedish knife, pin rake or gauge rake. Sikafloor 330 should not be rolled with a spike roller.

Sikafloor 305 W: Measure and mark the area to ensure consistent coverage of each kit of topcoat at 4.5 wet mils. Over or under application of the topcoat may result in inconsistencies in the finish. Pre-coat the edge areas with brush and small roller. Ensure maintenance of a wet edge. Sikafloor 305 W is poured onto the substrate. The product is spread on the substrate in the pouring direction with a 1/2" or 3/8" lambskin roller and with the same roller across the pouring direction. Use the roller and extend the overlap for pour to pour consistency. The topcoat should be spray applied if a smooth finish is desired.

Critical Recoat

Consult specific product data sheets for recoat times.

Time

Tooling &

Finishing

A seamless finish can be achieved if a "wet" edge is maintained during application.

Removal

Clean all tools and application equipment with solvent immediately after use. Hardened and/or cured material can only be removed mechanically. Strictly follow solvent manufacturer's warnings and instructions for use.

Limitations

- Do not apply ComfortFloor on substrates with rising moisture.
- Do not apply on substrate surfaces with a slope > 1%.
- Freshly applied ComfortFloor must be protected from damp, condensation and water for at least 24 hours.
- Uncured material reacts in contact with water which will result in foaming. During application, care must be taken that no condensation drops into freshly applied components of the ComfortFloor systems.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- For exact color matching, ensure the Sikafloor 305 W in each area is applied from the same control batch number.
- Under certain conditions, under floor heating or high ambient temperatures combined with high point loading, may lead to imprints in the resin.
- If heating is required to bring the substrate and environment temperature to recommended levels, use only electric powered air blower systems. Do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both carbon dioxide and water vapor, which may adversely affect the finish.
- If there is any question as to whether or not the product will adhere to an existing coating or surface, a test patch should be applied and evaluated for compatibility and adhesion.
- Topcoat application by roller may result in surface texture when using standard coverage rates. If a smoother finish is required, apply the product utilizing spray equipment.
- Ensure the entire surface is cured prior to introducing traffic onto the newly applied topcoat. Product which has not fully cured may scratch.
- Good ventilation is required for Sikafloor 305 W to cure properly.
- Gloss is affected by fluctuations in temperature and humidity.

Substrate Temperature: 50°F (+10°C) min. / 86°F (+30°C) max.

Ambient Temperature: 50°F (+10°C) min. / 86°F (+30°C) max.

Substrate Moisture Content: Conduct quantitative anhydrous calcium chloride testing in accordance with ASTM-F1869. Maximum acceptable test result is 3 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 or contact Sika Technical Services for recommendations.

Relative Air Humidity: 80% r.h. max.

Dew Point: Beware of condensation! The substrate and uncured floor must be at least 5°F (3°C) above dew point to reduce the risk of condensation or blooming on the floor finish.



Caution	PART R: CAUTION: IRRITANT, SENSITIZER. Contains: Epoxy Resin (CAS: 25068-38-6). May cause eye/skin irritation. May be harmful if inhaled/swallowed. May cause skin sensitization. PART H: WARNING: IRRITANT, SENSITIZER. Contains Hexamethylene Diisocyanate Polymer (CAS: 28182-81-2) and Hexamethylene diisocyanate (HDI) (CAS: 822-06-0). Causes eye/skin/respiratory irritation. Harmful if swallowed. May cause skin/respiratory sensitization.
First Aid	Eyes – Hold eyelids apart and flush thoroughly with water for 15 minutes. Skin – Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. Inhalation – Remove to fresh air. Ingestion – Do not induce vomiting. Dilute with water. Contact physician. In all cases contact a physician immediately if symptoms persist.
Handling & Storage	Avoid direct contact. Wear personal protective equipment (chemical resistant goggles/gloves/ clothing) to prevent direct contact with skin and eyes. Use only in well ventilated areas. Open doors and windows during use. Use a properly fitted NIOSH respirator if ventilation is poor. Wash thoroughly with soap and water after use. Remove contaminated clothing and launder before reuse
Clean Up	Use personal protective equipment (chemical resistant gloves/goggles/clothing). Without direct contact, sweep up spilled or excess product and place in suitable sealed container. Dispose of excess product and container in accordance with applicable local, state, and federal regulations.
Additional Info	Technical Data 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.

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

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Visit our website at www.sikafloorusa.com

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