

Product Data Sheet
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Sikafloor 90P

Sikafloor® 90P

(Clear/Pigmented)

High gloss, non-yellowing, aliphatic, moisture-cure polyurethane

Description	Sikafloor 90P is a single component aliphatic, moisture cure polyurethane topcoat.
Where to Use	<ul style="list-style-type: none"> ■ Wear layer over deck coatings and slip resistant coatings. ■ Seamless flooring applications. ■ Exterior masonry surfaces subject to UV degradation. ■ Available in Clear or Standard Gray. ■ Seal coat for the Sikadur Balcony System or Sikadur Epoxy Broadcast Overlay System. ■ Over masonry sealers and clear coatings.
Advantages	<ul style="list-style-type: none"> ■ Non-yellowing satin sheen. ■ Outstanding color and gloss retention. ■ High degree of flexibility. ■ Excellent abrasion and chemical resistance. ■ Improved cleanability.
Coverage	<p>As a top coat neat: Approximately 150-180 sq. ft./gal. depending on application and condition of substrate.</p> <p>As a seal coat over Sikadur Balcony System: Approximately 100-110 sq.ft./gal. over medium, rounded, colored broadcast sand.</p> <p>As a seal coat over Sikadur Epoxy Broadcast Overlay System: Approximately 70-80 sq.ft./gal. over 20/40 CQA broadcast aggregate.</p>
Packaging	5 gallon pail

Typical Data [Material and curing conditions @ 73°F (23°C) and 50% R.H.]

Shelf Life	12 months in original, unopened containers.
Storage Conditions	Store dry at 40°-85°F (4°-30°C). Condition material to 65°-85°F (18°-30°C) before using.
Mixing Ratio	Single component.
Solids Content (ASTM C-1250)	72%
VOC Content	340 g/l (gray) 420 g/l (clear)
Curing Times	Foot/Wheeled traffic: 48 hours minimum
Tensile Strength (ASTM D-412)	3,200 psi (22 MPa)
Elongation % (ASTM D-412)	190%
Abrasion Resistance (ASTM C-501)	<50 mg.
Shore A Hardness (ASTM D-2240)	91
Tear, Die C (ASTM D-624)	300 lb./in. (52.5 N/mm)

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.

Preparation Work: 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 blastcleaning or equivalent mechanical means. (CSP3 as per ICRI guidelines).

Application

Minimum application temperature (ambient and substrate must be between 50°F (10°C) and 85°F (30°C).

When applying Sikafloor 90P onto concrete: Surfaces to be coated with Sikafloor 90P must be primed. After proper surface preparation, prime the prepared substrate with Sikafloor 90. Allow primer to cure a minimum of 24 hours prior to coating with Sikafloor 90P. The coating must be applied within 48 hours since a longer delay will require additional surface preparation.

Apply the Sikafloor 90P using a high quality roller (3/8"-1/2" nap). Use a slow even motion to reduce bubbling and air entrapment. If a second coat is required, allow a minimum 16 hour cure but apply the second coat within 48 hours since a longer delay will require additional surface preparation.

Seal coat for the Sikadur Balcony or Sikadur Epoxy Broadcast Overlay System: After removal of all excess broadcast sand, apply the Sikafloor 90P neat using a high quality roller. **As with all coatings, job site mock-ups should always be completed to confirm acceptability of workmanship, material and aesthetics. Mock-ups should be evaluated under actual service conditions.**

Construction



Mixing	Mix thoroughly for a minimum of 3 minute with a 1/2" Jiffy mixing padure on a low speed (4 rotary drill, taking care not toto entrain air during mixing. To minimize color variations when using multiple lot numbers, blend two lots of pigmented Sikafloor 90P. Use one pail and maintain the second pail to repeat this procedure ("boxing") for the entire application.
Maintenance	Keep floors coated with Sikafloor 90P free from wax and all wax containing products. Keep surfaces free from loose debris, dirt, grit and sand. Daily sweeping and/or dust mopping with a dry untreated dust mop is recommended. For more information, contact Sika Technical Services.
Limitations	<ul style="list-style-type: none"> ■ The use or addition of Sikaflex-2c Color Paks or any other pigments or dyes in order to change the appearance or color of the polyurethane coating prior to application is prohibited. ■ Do not apply or cure in direct sunlight. ■ When applied over an "epoxy" surface (i.e. epoxy coatings, light colored broadcast aggregates, etc.), the clear polyurethane topcoat will not prevent discoloration of the overall system when sealed surface is subject to variations in lighting and/or UV exposure. ■ Minimum application temperature is 50°F (10°C). Maximum application temperature is 85°F (30°C). ■ Frequent monitoring of substrate and ambient temperature should always be done when applying polyurethane coatings. Note that low temperature and low humidity will slow down the cure, and elevated temperatures and high humidity will accelerate it. ■ To avoid dew point conditions, maximum relative humidity (during application) is 95%. Substrate temperature must be 5°F (3°C) above measured dew point temperature. ■ Do not subject to continuous immersion. ■ Any repairs required to achieve a level surface must be performed prior to the application. ■ Do not apply to porous damp surface where moisture vapor transmission will occur during the application and curing. On 'green' or 'damp' concrete, Sikagard 75 EpoCem can be used as a pore filler to reduce vapor drive and potential osmotic blistering. ■ Substrate must be dry prior to the application. Do not apply to a frosted, damp or wet surface. Do not proceed if rain is imminent within 8 hours of application. Allow sufficient time for the substrate to dry after rain or other inclement weather as this can cause bonding problems. ■ When applying over existing coatings, compatibility and adhesion testing is recommended. ■ Some high performance tires can stain a system coated with Sikafloor 90P. Sika Corporation will not assume responsibility for stains from organic exposures, including staining deposits from high performance tires.
Caution	<p>WARNING: COMBUSTIBLE, IRRITANT, SENSITIZER. Keep away from heat and flame. Use only in well ventilated areas. Open doors and windows during use. Causes severe eye/skin irritation. May cause respiratory irritation. Prolonged and/or repeated exposure may cause skin sensitization. May be harmful if swallowed. Overexposure to vapors may cause dizziness, headache and central nervous system effects.</p> <p>Deliberate concentration of vapors for purposes of inhalation is harmful and can be fatal.</p> <p>HMIS Rating: H-2, F-2, R-1, PPE-H</p>
First Aid	<p>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 person to fresh air. Ingestion: Do not induce vomiting. Dilute with water. Contact physician. In all cases, contact a physician immediately if symptoms persist.</p>
Handling and Storage	<p>Keep away from heat and flame. DO NOT SMOKE. Open doors and windows during use. Use adequate local and mechanical ventilation. Avoid direct contact with eyes and skin. Wear protective equipment (chemically resistant gloves/goggles/clothing) to prevent direct contact with skin and eyes. Use a properly fitted NIOSH vapor cartridge respirator if ventilation is poor. Wash thoroughly with soap and water after use. Remove contaminated clothing after use. Store product in tightly sealed containers in a cool, dry, well-ventilated area at temperatures between 40-85F (4-35C) and away from ignition sources.</p>
Clean Up	<p>In case of spill, eliminate all ignition sources. Ventilate area. Open doors and windows. Wear chemical resistant gloves/goggles/clothing. In absence of proper ventilation, use a properly fitted NIOSH respirator. Confine spill, collect using absorbent material and place in a properly sealed container. Dispose of excess product in accordance with current applicable local, state and federal regulations.</p>

KEEP CONTAINER TIGHTLY CLOSED NOT FOR INTERNAL CONSUMPTION
 KEEP OUT OF REACH OF CHILDREN FOR INDUSTRIAL USE ONLY
 CONSULT MATERIAL SAFETY DATA SHEET FOR MORE INFORMATION

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.

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Quality Certification Numbers: Lyndhurst: FM 69711 (ISO 9000), FM 70421 (QS 9000), Marion: FM 69715, Kansas City: FM 69107, Santa Fe Springs: FM 69408

