PRODUCT DATA SHEET
Sikalastic®-720 Base

TWO-COMPONENT, FAST-CURING, SOLVENT-FREE, CRACK-BRIDGING, ELASTOMERIC POLYURETHANE BASE COAT

PRODUCT DESCRIPTION
Sikalastic®-720 Base is a two-component, aromatic, chemically cured, elastomeric polyurethane coating intended for use as the waterproofing base coat under polyurethane or epoxy wearing surfaces for pedestrian and vehicular traffic bearing applications, and as the waterproofing base coat under a separate wearing course such as concrete or asphalt pavement, and tile in a setting bed.

USES
Sikalastic®-720 Base may only be used by experienced professionals.
- Multi-story parking garages
- Parking decks and ramps
- Foot bridges and walkways
- Mechanical rooms
- Stadiums and arena
- Plaza and rooftop decks
- Balconies

CHARACTERISTICS / ADVANTAGES
- Low odor and fast turnaround
- Excellent crack-bridging properties and flexibility, even at low temperatures
- Resistant to water and de-icing salts
- Alkaline resistant

PRODUCT INFORMATION

<table>
<thead>
<tr>
<th>Packaging</th>
<th>20 gal. kit - four 5 gal. pails (net 4 gal. each) Part A and four 1 gal. cans Part B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance / Color</td>
<td>Gray</td>
</tr>
<tr>
<td>Shelf Life</td>
<td>12 months in original, unopened containers</td>
</tr>
<tr>
<td>Storage Conditions</td>
<td>Store dry at 40–95 °F (4–35 °C). Condition material to 65–85 °F (18–30 °C) before using.</td>
</tr>
<tr>
<td>Solid content by volume</td>
<td>100 %                                (ASTM D-2697)</td>
</tr>
<tr>
<td>Volatile organic compound (VOC) content</td>
<td>&lt; 15 g/L                          (ASTM D-2369-81)</td>
</tr>
</tbody>
</table>
**TECHNICAL INFORMATION**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Reference</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shore A Hardness</td>
<td>80 +/- 5 (75 °F (24 °C) and 50 % R.H.)</td>
<td>(ASTM D-2240)</td>
</tr>
<tr>
<td>Tensile Strength</td>
<td>2500 +/- 100 psi (75 °F (24 °C) and 50 % R.H.)</td>
<td>(ASTM D-412)</td>
</tr>
<tr>
<td>Elongation at Break</td>
<td>800 +/- 50 % (75 °F (24 °C) and 50 % R.H.)</td>
<td>(ASTM D-412)</td>
</tr>
<tr>
<td>Tear Strength</td>
<td>300 +/- 25 pli (75 °F (24 °C) and 50 % R.H.)</td>
<td>(Die C, ASTM D-624)</td>
</tr>
<tr>
<td>Chemical Resistance</td>
<td>Resistant to de-icing salts, and alkaline concrete and cementitious mortars/tile adhesives.</td>
<td></td>
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</tbody>
</table>

**APPLICATION INFORMATION**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coverage</td>
<td>70 ft²/gal. at 23 wet mils (23 dry mils)</td>
</tr>
<tr>
<td>Pot Life</td>
<td>10–15 minutes</td>
</tr>
</tbody>
</table>

**APPLICATION INSTRUCTIONS**

**SURFACE PREPARATION**

Surface must be clean, dry and sound with an open texture. 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 blast cleaning or equivalent mechanical means (CSP 3-4 per ICRI guidelines).

**Plywood** - Should be clean and smooth, APA and exterior grade, not less than 1/2” thick, and spaced and supported according to APA guidelines. Joints should be sealed with Sikaflex® sealant and detailed and may need embedded fabric reinforcement.

**Metal** - Should be thoroughly cleaned by grinding or blast cleaning.

**Priming**

**Primer Selection** - Determine maximum moisture content of concrete substrate by weight with a Tramex CME or CMExpert type concrete moisture meter. **NOTE:** For new plywood decks, a primer is not required.

**Sikalastic® Primer** – For concrete decks with a maximum moisture content of 4 % by weight, and for weathered plywood decks, apply Sikalastic® Primer with a flat squeegee or phenolic resin core roller at approximately 250 - 300 sf/gal. and work well into the substrate to ensure adequate penetration and sealing, and puddles are avoided. Sikalastic® Primer is not suitable for metal substrates. Refer to separate primer data sheet for additional information.

**Sikalastic® FTP Primer** – For concrete decks with a maximum moisture content of 4 % by weight, and for weathered plywood decks, apply Sikalastic® FTP Primer with a flat squeegee or phenolic resin core roller at approximately 300 sf/gal. and work well into the substrate to ensure adequate penetration and sealing, and puddles are avoided. Sikalastic® FTP Primer is not suitable for metal substrates. Refer to separate primer data sheet for additional information.

**Sikalastic® PF Lo-VOC Primer** - For concrete and plywood decks with a porous or rough surface, and for metal flanges and penetrations, use Sikalastic® PF Lo-VOC Primer. For exterior exposed concrete decks with a maximum moisture content of 4 % by weight, interior protected concrete decks with a maximum moisture content of 5 % by weight, and plywood decks, apply Sikalastic® PF Lo-VOC Primer with a flat squeegee or phenolic resin core roller at approximately 200 sf/gal. and work well into the substrate to ensure adequate penetration and sealing, and puddles are avoided. For exterior exposed concrete decks with a maximum moisture content of 5 % by weight, two applications of Sikalastic® PF Lo-VOC Primer are required. Refer to separate primer data sheet for additional information.

**Sikalastic® FTP LoVOC Primer** - For concrete with a maximum moisture content of 5 % by weight, and for metal flanges and penetrations, apply Sikalastic® FTP LoVOC Primer with a flat squeegee or roller at approximately 175  sf/gal. For concrete decks with a maximum moisture content of 6% by weight, apply two applications of Sikalastic® FTP LoVOC Primer with a flat squeegee or phenolic resin core roller at approximately 175 - 220 sf/gal per application. Work primer well into the substrate to ensure adequate penetration and sealing, and puddles are avoided. Refer to separate primer data sheet for additional information.

**Sikalastic® MT Primer** - For concrete with a maximum moisture content of 5 % by weight, and for metal flanges...
and penetrations, apply Sikalastic® MT Primer with a flat squeegee or roller at approximately 175 sf/gal. For concrete decks with a maximum moisture content of 6% by weight, apply two applications of Sikalastic® MT Primer with a flat squeegee or phenolic resin roller at approximately 175 sf/gal per application. Work primer well into the substrate to ensure adequate penetration and sealing, and puddles are avoided. Refer to separate primer data sheet for additional information.

Sikalastic® Reccoat Primer – For existing polyurethane coatings, incidental exposed concrete deck areas, and as an interlaminate primer, apply Sikalastic® Reccoat Primer with a flat squeegee or phenolic resin core roller at approximately 300 sf/gal, and work will into the substrate to ensure adequate penetration and sealing, and puddles are avoided. Sikalastic® Reccoat Primer is not suitable for metal substrates. Refer to separate primer data sheet for additional information.

**Detailing**

**Non-structural cracks up to 1/16”** - Apply a detail coat of Sikalastic®-720 Base at 23 wet mils, 4” wide, centered over the crack. Allow to become tack free before over coating.

**Cracks and joints over 1/16” up to 1 inch** - Rout and seal with Sikaflex® sealant and allow to cure. Apply a detail coat of Sikalastic®-720 Base at 23 wet mils, 4” wide, centered over the crack. Allow to become tack free before coating.

**Joints over 1 inch** - Should be treated as expansion joints and brought up through the Sikalastic®-720 Base waterproofing membrane and sealed with Sikaflex® sealant.

**Fabric Reinforcement** – An optional 3” or 6” wide Sikalastic Flexitape Heavy fabric strip may be embedded within the base coat. Flexitape width shall be chosen such that a minimum of 1” tape is embedded on either side of the crack/joint. Apply additional coating as required to fully embed the Flexitape in the coating.

**Panelized Joints** - Panelized joints that are restrained across the joint and without differential movement may be sealed and the deck coating, including detail coat, applied over the joint. \*NOTE: movement within panelized joints may cause deterioration of the aggregated wear coat, in which case the joints should be treated as expansion joints and brought up through the Sikalastic Traffic System and sealed with Sikaflex® sealant. For additional questions please contact Sika Technical Services.

**Expansion Joints** - Should be extended through System.

**MIXING**

Premix Part A and Part B components using a mechanical mixer (Jiffy) at slow speed to obtain uniform color, making sure to scrape the solids from the bottom and sides of the pail. Pour part B into Part A slowly and while mixing scrape the side of the container. Mix the combined material thoroughly until a homogenous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrainment of air into the mixture.

**APPLICATION**

Apply at the recommended coverage rate (see appropriate System Guide) using a notched squeegee or trowel, and backroll using a phenolic resin core roller. Extend base coat over entire area including previously detailed cracks and joints. Allow coating to cure a minimum of 3–4 hours at 70 °F and 50 % R.H. or until tack free before top coating. Allow coating to cure for a minimum of 36 hours before installing separate wear course.

**Removal**

Remove liquid coating immediately with dry cloth. Once cured, coating can only be removed by mechanical means.

**LIMITATIONS**

- To avoid dew point conditions during application, relative humidity must be no more than 95% and substrate temperature must be at least 5 °F (3 °C) above measured dew point temperatures.
- Maximum moisture content of substrate: 4% by weight with Sikalastic® Primer, Sikalastic® FTP Primer, Sikalastic® PF LoVOC Primer and 6% by weight with Sikalastic® FTP LoVOC Primer, Sikalastic® MT Primer.
- Minimum ambient and substrate temperature during application and curing of material is 40 °F (4 °C); maximum is 90 °F (32 °C). Frequent monitoring of ambient and substrate temperature should always be done when applying polyurethane coatings. Note that low temperatures and low humidity will slow down the cure, and high temperatures and high humidity will accelerate it.
- Do not store materials outdoors exposed to sunlight for prolonged periods.
- Do not thin with solvents.
- Minimum age of concrete must be 21–28 days, depending on curing and drying conditions.
- Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various Sika product solutions). Surface irregularities may reflect though the cured system.
- Do not apply to a porous or damp surface where moisture vapor transmission will occur during application and cure.
- Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Do not proceed if rain is imminent within 8–12 hours of application. Allow sufficient time for the substrate to dry after rain or inclement weather as there is the potential for bonding problems.
- When applying over existing coatings compatibility and adhesion testing is recommended.
▪ On grade, lightweight concrete, asphalt pavement, and applications where chained or studded tires may be used should not be coated with Sikalastic® traffic systems.
▪ Unvented metal pan decks or decks containing between-slab membranes require further technical evaluation and priming with a moisture-blocking primer - contact Sika regarding recommendations.
▪ Waterproofing applications under overburden, including concrete pavement, asphalt pavement, and tile in a cementitious setting bed, require further technical evaluation - contact Sika regarding recommendations.
▪ Do not subject to continuous immersion.
▪ Sikalastic®-720 Base is not UV stable and must be top coated or protected by a separate wearing course.
▪ Primer and base coat must be kept clean and recoated - primer within 48 hours, base coat within 24 hours. If this window is exceeded, contact Sika for recommendations.
▪ Mockups to verify application methods and substrate conditions as well as desired skid resistance and aesthetics are highly recommended.

BASIS OF PRODUCT DATA
Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

LOCAL RESTRICTIONS
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 Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.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 Product Data Sheet, product label and 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 Product 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. Sika shall not be liable under any legal theory for special or consequential damages. Sika shall 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. Sale of Sika products are subject to Sika's terms and conditions of sale available at http://usa.sika.com/ or by calling 201-933-8800.

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LEGAL NOTES
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 Product Data Sheet, product label and Safety Data Sheet which are available online at http://usa.sika.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 Product Data Sheet, product label and 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 Product 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. Sika shall not be liable under any legal theory for special or consequential damages. Sika shall 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. Sale of Sika products are subject to Sika's terms and conditions of sale available at http://usa.sika.com/ or by calling 201-933-8800.