Sikagard® 7600
Two-component Polyurethane, Bitumen Modified
Waterproofing Membrane

Description
Sikagard® 7600 is a two-component, liquid applied, asphalt extended polyurethane sealer used in a waterproofing membrane system. The system is available in 2 grades: roller grade - Sikagard® 7600 HG and trowel grade - Sikagard® 7600 VG.

Where to Use
- Waterproofing
- Tank Liner
- Pond Liner
- Cooling Tower liner
- Potable Water Containment
- Reservoirs
- Traffic system base coat over asphalt surface

Advantages
- Economical and easy to apply system
- Seamless system which bridges cracks and joints
- Impervious to water and aqueous chemicals
- Meets California VOC and AQMD Requirements, Including SCAQMD Areas
- ANSI / NSF 61 Approved for contact with Potable Water
- Abrasion Resistant
- UV Stable

Coverage
50 ft²/gal (0.82 liters/m²) results in 30 ± mils DFT (standard per 1 coat)

Packaging
Component A - 0.45 gal. pail
Component B - 4.05 gal. pail
1 Unit 4 x 4.5 gal. pail A+B

Cure Mechanism
Chemical Cure

Chemical Resistance
Resistance to aqueous chemicals and waste water. Please see chemical resistance chart.

Typical Data (Material and curing conditions @ 75°F (24°C) and 50% R.H.)
Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

<table>
<thead>
<tr>
<th>Property</th>
<th>Sikagard 7600 HG: 30 Min.</th>
<th>Sikagard 7600 VG: 20 Min.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shelf Life</td>
<td>One year from date of manufacture in original, factory-sealed containers.</td>
<td></td>
</tr>
<tr>
<td>Storage Conditions</td>
<td>Store indoors at a temperature between 60-95°F (15-35°C).</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Component A: Transparent</td>
<td>Component B: Black</td>
</tr>
<tr>
<td>Pot Life</td>
<td>Sikagard 7600 HG: 30 Min.</td>
<td>Sikagard 7600 VG: 20 Min.</td>
</tr>
<tr>
<td>Total Volume Solids (ASTM D-2697)</td>
<td>89 ± 2%</td>
<td>89 ± 2%</td>
</tr>
<tr>
<td>Total Volume Weight (ASTM D-236)</td>
<td>95 ± 2%</td>
<td>95 ± 2%</td>
</tr>
<tr>
<td>VOCs (ASTM D-2369-81)</td>
<td>78 g/L</td>
<td>78 g/L</td>
</tr>
<tr>
<td>Tensile Strength (ASTM D-412)</td>
<td>1000 psi ± 50 psi 5.86 Mpa ± 0.3 Mpa</td>
<td></td>
</tr>
<tr>
<td>Elongation at Break (ASTM D-412)</td>
<td>450% ± 50%</td>
<td>450% ± 50%</td>
</tr>
<tr>
<td>Tear Strength (Die C, ASTM D-624)</td>
<td>180 ± 50 pli</td>
<td>180 ± 50 pli</td>
</tr>
<tr>
<td>Hardness (ASTM D-2240)</td>
<td>60 ± 5 Shore A</td>
<td>60 ± 5 Shore A</td>
</tr>
<tr>
<td>Adhesion to Concrete (dry) Elcometer</td>
<td>350 psi</td>
<td>350 psi</td>
</tr>
<tr>
<td>Abrasion Resistance - Weight Loss (ASTM D4060)</td>
<td>1.2 mg loss</td>
<td>1.2 mg loss</td>
</tr>
<tr>
<td>Deflection Temperature (ASTM D648)</td>
<td>pass</td>
<td>pass</td>
</tr>
<tr>
<td>Elastomeric Waterproofing (ASTM C836) (ASTM C957)</td>
<td>exceeds</td>
<td>exceeds</td>
</tr>
<tr>
<td>Extension to Break (ASTM D2859)</td>
<td>450 ± 100</td>
<td>450 ± 100</td>
</tr>
<tr>
<td>Liner Performance Crack Bridging 10 cycles @ -15°F</td>
<td>&gt; 1/8&quot;; After heat aging &gt; 1/4&quot;</td>
<td></td>
</tr>
<tr>
<td>Liner Weight (60 mil wet film thickness)</td>
<td>30 lbs/100 sq.f.</td>
<td>30 lbs/100 sq.f.</td>
</tr>
<tr>
<td>Mullen Burst Strength (ASTM D751) 50 mil</td>
<td>155 psi</td>
<td>155 psi</td>
</tr>
<tr>
<td>Permeability to Water Vapor (ASTM D751)</td>
<td>0.03 perms</td>
<td>0.03 perms</td>
</tr>
</tbody>
</table>

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 instructions for each Sika product as set forth in the current product data sheet, product label and safety data sheet prior to product use.
Construction

How to Use

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 application.

Concrete - New concrete must be cured a minimum of 28 days prior to application. Old concrete must be free of loose aggregate, dirt and be dry. New and old concrete should be Shot-, Water- or Abrasive-blasted. Grease spots and oil should be cleaned with appropriate cleaners.

Asphalt - New asphalt must be cured a minimum of 28 days prior to application. Old asphalt must be free of loose aggregate, dirt and be dry. New and old asphalt should be Shot-, Water- or Abrasive-blasted. Lower ambient temperature will help to make cleaning process more effective. Grease spots and oil should be cleaned with appropriate cleaners.

Metal - Should be thoroughly cleaned by grinding or blast cleaning. Be aware of dew point and check it before every application on metal surface.

Plywood - The only acceptable grade of plywood is APA rated exterior grade or better. The appearance and physical characteristics of the plywood and grade should be considered. Plywood should be new or cleaned and sanded.

Priming: To promote adhesion and minimize outgassing, priming is advised on all surfaces except for new plywood. New plywood priming is optional.

Concrete, Metal, Old Plywood - Sikalastic® PF Lo-VOC Primer, recoat window: tack free to 16 hrs.

Concrete - Sikalastic® MT Primer, recoat window: tack free to 48 hrs.

Asphalt - Sikalastic® Recoat Primer, recoat window: tack free to 12 hrs.

Mixing
Mix each pail (4.05 gal.) of Sikagard® 7600 Part-B by using a mechanical mixer and jiffy style paddle at slow speed for 1.5 minutes minimum to ensure a homogeneous material. Take care not to allow entrapment of air into the material. Do not mix in an up and down motion. While mixing, slowly add one 0.45 gallon pail of Sikagard® 7600 Part-A to the pail. Once Part-A has been added, mix for 3 minutes.

NOTE: For rough or porous concrete or when outgassing is a concern, use Sikalastic® PF Lo-VOC Primer at an approximate rate of 180 sq.ft./1 gal. (0.21 liters/m²). This rate may vary on the porosity of the substrate. Allow primer to become tack free before proceeding to the next phase.

Application

Phase 1 (Primer): When required; prime the surface at the rate of 1 gal/200 sq.ft. (0.14 liters/m²). Apply using a brush or phenolic core roller. This will result in 5 dry mils (127 microns) of coating. Priming is optional. Don’t prime over an existing detail coat.

NOTE: For rough or porous concrete or when outgassing is a concern, use Sikalastic® PF Lo-VOC Primer at an approximate rate of 180 sq.ft./1 gal. (0.21 liters/m²). This rate may vary on the porosity of the substrate. Allow primer to become tack free before proceeding to the next phase.

Phase 2 (Cracks, Joints, Detailing):

Detail Coat: Apply 30 mils of detail coat Sikagard® 7600 over all joints, cracks and flashing.

Reinforced Detail Coat: Apply 15 mils of detail coat Sikagard® 7600 over all joints, cracks and flashing. Bridge joints, cracks, and flashings with 3” or 6” FlexiTape Heavy pushing it into the Sikagard® 7600 over all joints, cracks and flashings. Over reinforcement tape, apply 10-15 mils stripe coat of Sikagard® 7600 and taper it onto adjacent surface. Allow the surface to cure for 1 - 2 hours before the next phase.

Cracks in concrete/asphalt over 1/8” must be filled with Sikagard® 7600. Using Sikagard® 7600 as caulking compound will shorten the curing time over conventional polyurethane caulks. Place 3” FlexiTape Heavy over freshly filled crack and apply 20 mils of Sikagard® 7600 detail coat. Allow to cure 2 - 4 hours before the next phase.

Phase 3 (Coat #1): The first coat of Sikagard® 7600 (mixture of Part-A and Part-B) should be applied at the rate of 50 sq.ft./1 gal. (0.82 liters/m²) resulting in 30 dry mils (750 microns) of membrane. Allow to cure (2 - 4 hours) before proceeding to Phase 4.

Phase 4 (Coat #2): Apply the second coat of Sikagard® 7600 (mixture of Part-A and Part-B) at the rate of 50 sq.ft./1gal. (0.82 liters/m²) resulting in 30 dry mils (750 microns) of membrane.

NOTE: If priming is not required skip Phase 1, and proceed with Phase 2. Properly applied system Sikagard® 7600 will provide 60 dry mils (1500 dry microns). Any adhesion test is to be performed 7 days after product application.

Sikagard 7600 HG: Can be applied over horizontal and vertical surface. Apply using a phenolic core roller 1/2” or brush. 3/16” notched squeegee can be used only for horizontal application.

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Sikagard 7600 VG: Can be applied over vertical and overhead surface. Apply using a 1/16” trowel. Please not that potlife for SG 7600 VG is only 20 minutes.

Recoat: At 75°F (24°C) and 50% relative humidity, recoating and multiple or second coats must be completed within 8 hours of previous applications of Sikagard® 7600. After this 8 hour window, it is necessary to abrade, clean and prime surface (Sikalastic Recoat Primer) prior to recoating.

Reinforcement: please contact Sika Technical Service (polyester scrim is optional)

Removal Equipment should be immediately cleaned with an environmentally safe solvent, as permitted under local regulations.

Limitations
- Surfaces must be dry, clean and free of foreign matter. Clear coating may turn opaque and cloudy due to moisture penetration, especially in exterior applications. Surface may be slippery when wet. Containers that have been opened must be used as soon as possible. Do not dilute under any circumstance.
- Cured Sikagard® 7600 may be placed in service within 24 hours for non-aggressive service and no potable water. Other service applications may require a cure time of a minimum 96 hours or more. Please contact Sika Technical Service for recommended application.
- This product is available only in black color. Can be exposed to direct sunlight. Initially after application it is shiny black than after few months it will turn dull after being exposed to direct sunlight.
- Observe the curing time before immersion into and service in potable water. Please see Desinfection and cleaning guide.
- 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.
- Minimum ambient and substrate temperature during application and curing of material is 41°F (5°C); maximum is 85°F (35°C). Surface temperatures must be no higher than 110°F (43°C).
- New concrete must be cured a minimum of 28 days prior to application.
- Do not store materials outdoors exposed to sunlight and moisture for prolonged periods.
- Do not apply to substrates surfaces where moisture vapor transmission will occur during application and cure. This condition should be checked using ASTM D-4263 (Polyethylene Sheet method).
- Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Allow sufficient time for the substrate to dry after rain or inclement weather, as there is the potential for bonding problems.
- On substrates likely to exhibit outgassing apply during falling ambient and substrate temperature. If applied during rising temperature pin holing may occur.
- Do not apply when substrate is in direct sunlight.
- Precautions should be taken to prevent vapors and/or odors from entering the building/structure, including but not limited to turning off and sealing air intake vents and through-wall air conditioners, and other means of vapor/odor ingress during application and cure. Please see Applying within Confined Spaces manual.
- Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various product solutions). Surface irregularities may reflect through the cured system.
- When applying over existing coatings or membranes compatibility and adhesion testing, subsequent approval by Technical Services is required.
- Do not thin or part mix the material. Do not mix Sikagard® 7600 by hand; mechanically mix only.
- Unvented metal pan, split/sandwich slab with encapsulated membrane and/or insulation, cinder fill decks, and lightweight insulating concrete overlays should not be covered with Sika membrane systems without additional deck evaluation to determine substrate moisture content and subsequent approval by Technical Services.
- If Sikagard 7600® is used as split slab waterproofing membrane or buried membrane cover the final coat of Sikagard 7600® with an approved drainage mat (Sika® Drain 420) or protection board.
- Application over asphalt as traffic coating Base Coat: Please contact Sika Technical Service. Always use Recoat primer.

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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 Product Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks.

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