



**PRODUCT DATA SHEET**

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TRAFFIC COATINGS

# Sikalastic®-394

## TWO-COMPONENT, 100 % SOLIDS, LOW ODOUR, ALIPHATIC POLYURETHANE TOP COAT AND WEAR COURSE

<b>Description</b>	Sikalastic®-394 is a 100 % solids, aliphatic polyurethane binder and top coat that is specially formulated to refresh (as top coat) or to protect (as wear course) parking decks that are exposed to U.V. light. When installed as a wear course over Sikalastic®-390 Membrane, the anti-skid finish is obtained by broadcasting oven-dried, silica sand into the binder.
<b>Where to Use</b>	Use as a wear course over Sikalastic®-390 Membrane to provide a durable, anti-skid surface on exterior surfaces exposed to UV light. May also be used as a top coat or to refresh exterior wearing courses installed after using Sikalastic®-391 N. Typical uses include: <ul style="list-style-type: none"> <li>▪ Multi-storey parking garages.</li> <li>▪ Parking decks and ramps.</li> <li>▪ Foot bridges and walkways.</li> <li>▪ Stadiums and arenas.</li> <li>▪ Plaza and rooftop decks.</li> <li>▪ Balconies and terraces.</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>▪ Complies with CAN/CSA-S413 -07 (ASTM C957) for Parking Structures.</li> <li>▪ Economical and easy to apply.</li> <li>▪ Solvent free, low odour.</li> <li>▪ High resistance to abrasion and long term UV light exposure.</li> <li>▪ Resistant to weathering.</li> <li>▪ Forms hard yet flexible film.</li> <li>▪ Easy to clean and maintain.</li> </ul>

**Technical Data**

<b>Packaging</b>	18 L (4.76 US gal.)
<b>Colour</b>	RAL 7012 Basalt Grey, RAL 7015 Slate Grey, RAL 7046 Telegrey 2, RAL 9017 Traffic Black Special colours available on request.
<b>Yield</b>	Top coat: 8 m <sup>2</sup> /L (204 ft <sup>2</sup> /US gal) at 5 mils w.f.t. Wear coat: 1.6 - 2.2 m <sup>2</sup> /L (65 - 90 ft <sup>2</sup> /US gal.) at 18 - 25 mils w.f.t. per coat Typically one (1) coat is required in parking stalls, two (2) coats in all other areas. <i>Note: Yield and coverage figures provided above do not allow for surface profile, porosity or wastage. Test areas are recommended to establish correct coverage rates.</i>
<b>Shelf Life</b>	2 years in original unopened container stored at 15 - 30 °C (59-86 °F). Protect from freezing. If frozen, discard.
<b>Mix Ratio</b>	A:B = 2.25:1 by volume

**Properties at 23 °C (73 °F) and 50 % R.H.**

<b>Solids Content</b>	100 %
<b>Pot Life, 250 g (8.8 oz)</b>	45 minutes
<b>Drying Times</b>	
Recoat time	12 hours
Traffic	48 hours
Full cure	7 days
<i>Drying times will vary according to air and substrate temperature and humidity.</i>	
<b>Tensile Strength ASTM D638</b>	
Type IV @ 50 mm/min.	3.4 MPa (450 psi)
<b>Elongation at Break ASTM D638</b>	
Type IV @ 50 mm/min.	145 %
<b>Tear strength ASTM D624</b>	
Die C	13.9 KN/lin. m (79.1 lb/lin. in)
<b>Shore A Hardness ASTM D2240</b>	85
<b>Abrasive Resistance ASTM D4060</b>	
Taber Abraser, CS-17 Wheel/ 1000 g (2.2 lb)/1000 cycles	15 mg of loss
<b>Water Absorption ASTM D570</b>	
7 days immersion at room temperature	0.61 %
<b>Rapidly Renewable Materials</b> (non food vegetable oil)	42 %
<b>VOC Content</b>	1 g/L

*Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.*

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**HOW TO USE**

**Surface Preparation** Apply onto cured Sikalastic®-390 Membrane within the acceptable recoat time of 6 to 24 hours at 23 °C (73 °F). If recoat time is not respected, then mechanical abrasion followed by the application of Sikalastic® Recoat Primer (see the Product Data Sheet for instruction) before the application of Sikalastic®-394.

**Mixing** Pre-mix each component of Sikalastic®-394 separately.

Empty component B in the correct mix ratio into the component A container. Mix the combined components for at least five (5) minutes, at low-speed (300 - 450 rpm) to minimize air entrapment, using a drill fitted with an *Exomixer*® type mixing paddle (recommended model) suited to the volume of the mixing container. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once, to ensure complete mixing. When completely mixed, Sikalastic®-394 should be uniform in colour and consistency.

Mix only that quantity which can be used within its pot life.

**Application** Apply Sikalastic®-394 wear course onto dry Sikalastic®-390 Membrane at a minimum thickness of 18 to 25 mils using a notched squeegee and backroll to ensure a uniform, level thickness. Broadcast clean, oven-dried, #24 mesh silica sand at 0.7 kg/m<sup>2</sup> (14 lb/100 ft<sup>2</sup>) to provide an anti-skid texture. Backroll to ensure uniform finish.

If using to refresh old wear courses or as a top coat for freshly installed wear courses, apply on wear course at a minimum thickness of 5 mils using a brush, roller or spray gun.

Allow finished wear course or top coat to cure for a minimum of 48 hours before opening to traffic.

**Clean Up** Clean all tools and equipment immediately with Sika® Urethane Cleaner and Thinner. One cured, product can only be removed mechanically. Wash hands and skin thoroughly with hot soapy water or use Sika® Hand Cleaner towels.

**Limitations**

- Thickness and re-coat window are critical; system will not work if installed differently.
- Minimum/maximum ambient and substrate temperature during application and cure: 10 °C / 32 °C (50 °F / 90 °F). 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. For applications outside of this temperature range, contact Sika Canada.
- Substrate temperature must be at least 3 °C (5.5 °F) above measured dew point temperature.
- Substrate must be dry prior to application. Do not apply to frosted, wet or damp surfaces. Do not proceed if rain is imminent within 8 - 12 hours of application. Allow sufficient time for substrate to dry after rain or inclement weather to avoid potential for bonding problems.
- Do not store materials outdoors or exposed to sunlight for prolonged periods.
- Do not hand-mix or thin with solvents: mechanical mix only.
- Ensure proper ventilation.

**Health and Safety Information** For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN  
FOR INDUSTRIAL USE ONLY

The Information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions, within their shelflife. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: [www.sika.ca](http://www.sika.ca)

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