

## PRODUCT DATA SHEET

# Sikalastic®-391

Two-component, solvent-free, aromatic polyurethane traffic bearing wear and interior top coat

### PRODUCT DESCRIPTION

Sikalastic®-391 is a two-component, chemically cured, elastomeric aromatic polyurethane coating intended for use as the traffic bearing wear coat and interior top coat over Sikalastic®-390 polyurethane waterproofing membrane for pedestrian and vehicular traffic bearing applications.

### USES

- Multi-story parking garages
- Parking decks and ramps
- Foot bridges and walkways
- Mechanical rooms
- Stadiums and arenas
- Plaza and rooftop decks
- Balconies

### CHARACTERISTICS / ADVANTAGES

- Low odor and fast turnaround
- Excellent crack-bridging properties and flexibility, even at low temperatures
- Resistant to abrasion and wear
- Resistant to deicing salts
- Range of standard colors

### PRODUCT INFORMATION

<b>Packaging</b>	5 gal. two component kit, 3.89 gal. comp. A, 1.11 gal. comp. B
<b>Shelf Life</b>	12 months in original, unopened containers
<b>Storage Conditions</b>	Store dry at 41–95 °F (5–35 °C). Condition material to 65–85 °F (18–30 °C) before using.
<b>Solid content by volume</b>	100 % (ASTM D-2697)
<b>Volatile organic compound (VOC) content</b>	< 10 g/L (ASTM D-2369-81)

## TECHNICAL INFORMATION

Shore A Hardness	80 +/- 5	(ASTM D-2240) 73 °F (23 °C) 50 % R.H.
Abrasion Resistance	13 mg loss	(ASTM D-4060) Taber Abraser, CS-17 Wheel: 1000 g (2.2 lb)/1000 cycles
Tensile Strength	595 psi	(ASTM D-412) 73 °F (23 °C) 50 % R.H.
Elongation at Break	205 %	(ASTM D-412) 73 °F (23 °C) 50 % R.H.
Tear Strength	396 pli	(Die C, ASTM D-624) 73 °F (23 °C) 50 % R.H.
Chemical Resistance	Resistant to deicing salts.	

## APPLICATION INFORMATION

Coverage	100 ft <sup>2</sup> /gal at 16 wet mils (16 dry mils) 89 ft <sup>2</sup> /gal at 18 wet mils (18 dry mils) 64 ft <sup>2</sup> /gal at 25 wet mils (25 dry mils) Coverage rates provided are intended to achieve required wet film thickness under optimal conditions. Additional material may be required depending on substrate surface roughness and porosity, material and substrate temperatures, and other site-dependent factors. This will result in a lower coverage
Pot Life	35–40 minutes

## APPLICATION INSTRUCTIONS

entrapment of air into the mixture.

### SURFACE PREPARATION

Surface must be clean, dry and sound.

**Sikalastic®-390 Waterproofing Base Coat** - Coating should be cured and tack free.

**Existing Coatings** - Should be cleaned and mechanically abraded to provide a contaminant free, open textured surface. Solvent wipe as allowed by state and local regulations. Use Sikalastic® Primer as recoat primer.

### MIXING

Premix Part A and Part B components using a low speed (400–600 rpm) mechanical mixer and Jiffy Paddle 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

## APPLICATION

Apply at the recommended coverage rate (see appropriate System Guide) using a 3/16" notched squeegee or trowel, and back roll using a phenolic resin core roller. Apply aggregate evenly distributed at the appropriate rate immediately into wet coating and back roll if required (see appropriate System Guide). Allow coating to cure a minimum of 10 hours at 70 °F and 50 % R.H.; coating must be tack free between coats. Allow coating to cure for a minimum of 48 hours before opening to vehicular traffic.

**Aggregate:** Use clean, rounded or semi-angular oven dried quartz sand with a size gradation of 16–30 mesh for vehicular traffic and 20–40 mesh for pedestrian traffic, and a minimum hardness of 6.5 per the Moh's scale. For high friction surfaces #3 flint aggregate can be used and evenly broadcasted to rejection . It should be supplied in pre-packaged bags and free of metallic or other impurities. Seeding of aggregate means an even, light broadcast short of refusal. Back roll aggregate where indicated. A full broadcast of aggregate means a heavy application to refusal. Any loose aggregate must be removed prior to re coating.

### 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.
- Minimum ambient and substrate temperature during application and curing of material is 41 °F (5 °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.
- Coating materials will become more viscous at lower application temperatures and be more difficult to spread, which may affect coverage rates.
- Do not store materials outdoors exposed to sunlight for prolonged periods.
- Do not thin with solvents.
- Use properly graded, oven dried aggregates only.
- 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.
- Opening to traffic or installation of separate wearing course prior to final cure may result in loss of aggregate, or permanent staining and subsequent premature failure.
- Vehicle fluids and some high performance tires can stain the coating. Fluid spills should be removed promptly as the coating can in some cases be damaged from prolonged exposure
- On grade, lightweight concrete, asphalt pavement, or insulated split slab applications, or applications where chained or studded tires may be used, must not be coated with Sikalastic Traffic Systems without Sika technical review. Contact Sika Technical Services or Product Engineering.
- Unvented metal pan decks or decks containing between-slab membranes require further evaluation to determine substrate moisture content and priming with a moisture-blocking primer .
- Do not subject to continuous immersion.

### Product Data Sheet

Sikalastic®-391

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- Precautions should be taken to prevent odors and/or vapors from entering the building/structure, including but not limited to turning off and sealing air intake vents or other means of ingress for odors and/or vapors into the building/structure during product application and cure.
- Sikalastic®-391 is not long-term UV stable and is not intended for direct exterior exposure.
- Intermediate coats must be kept clean and re coated within 16 hours. If this window is exceeded, contact Sika for recommendations.
- Mock ups 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.

## OTHER RESTRICTIONS

See Legal Disclaimer.

## ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## LEGAL DISCLAIMER

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

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates (“SIKA”), the user must always read and follow the warnings and instructions on the product’s most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKA’s Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or 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 label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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 the product’s shelf life. User determines suitability of product for intended use and assumes all risks. User’s and/or buyer’s sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **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.**

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Sikalastic®-391  
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