

## SYSTEM DATA SHEET

# Sikalastic® Vehicular Traffic 2530

HIGH-SOLIDS EPOXY/POLYURETHANE WATERPROOFING, TRAFFIC-BEARING MEMBRANE SYSTEM FOR VEHICULAR AREAS.

### PRODUCT DESCRIPTION

Sikalastic® Vehicular Traffic 2530 is a fluid-applied epoxy/polyurethane waterproofing system using fast-setting, two-component reactive curing mechanisms. It has very low odor.

Sikalastic® Vehicular Traffic 2530 is composed of:

- Sikalastic® M 270 NP - a two-component, fast-curing polyurethane base coat.
- Sikalastic®-350, a two-component, fast-curing epoxy top coat.
- Sikalastic® TC 295 – a high performance, two-component, aliphatic, polyaspartic-modified, high solids, polyurethane waterproofing coating.

For projects specifying primer, please consult a Sika Representative.

### USES

Sikalastic® Vehicular Traffic 2530 may only be used by experienced professionals.

Sikalastic® Vehicular Traffic 2530 consists of a highly wear-resistant, rigid top coat which is not designed for areas subject to movement.

- Stadiums
- Parking Garages
- Commercial Construction
- Building and Restoration

### SYSTEM INFORMATION

#### System Structure

- Sikalastic® M 270 NP
- Sikalastic®-350

### CHARACTERISTICS / ADVANTAGES

- Two component composition provides faster setting times, even in cooler climates
- Seamless, waterproof membrane protects concrete from freeze/thaw damage; protects occupied areas below from water damage; has no seams that may result in leaks
- Excellent chemical resistance to protect against common parking deck chemicals including gasoline, diesel fuel, oil, alcohol, ethylene glycol, de-icing salt, bleach and cleaning agents
- Skid resistant for increased safety; offers excellent durability and superior abrasion resistance
- Extremely durable with outstanding abrasion resistance, allowing for longer service life

### APPROVALS / STANDARDS

- CSA S413
- ASTM C 957

- Sikalastic® TC 295

<b>Composition</b>	100% Solids
<b>Color</b>	For color options please refer to the corresponding Product Data Sheet

## APPLICATION INFORMATION

<b>Test Results</b>	Allow curing time of 24 hours before vehicular and pedestrian use. Extend the curing time in cool-weather conditions.
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## 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.

## LIMITATIONS

- Sikaflex® HY100 and Sikaflex® HY150 should not be used in conjunction with these urethane deck coating system due to potential for curing issues.
- If vapor drive is present or suspected, please consult with your local Sika representative prior to system application.
- Sikalastic®-350, Sikalastic® M 270 NP, and Sikalastic® TC 295 have very short working times. Once the material has been mixed, the coating must be poured onto the surface and applied immediately
- Minimum application temperature is 40 °F (4 °C). Contact technical support when temperatures are above 90 °F (32 °C)
- Do not apply to concrete that is outgassing
- Warm temperatures will shorten working time; plan work accordingly
- Concrete should have a minimum compressive strength of 3,000 psi and be cured for a minimum of 28 days
- Do not apply the Sikalastic® Vehicular Traffic 2530 system to concrete slabs on grade, splits slabs with a sandwiched waterproofing membrane, unvented metal pan decks or plywood decks.
- Do not apply the Sikalastic® Vehicular Traffic 2530 system to a concrete deck that has deflection exceeding L/480.
- Sikalastic®-350 is a rigid epoxy material and may crack due to substrate flex and movement under the membrane system. Do not install Sikalastic®-350 over moving sealant joints.
- The best method to ensure the proper wet film thickness is the use of a grid system. Divide the surface to be coated into grids and calculate the square footage of each. Refer to the coverage chart to determine the quantity of coating needed for each grid to arrive at the required mil thicknesses.
- Avoid application of Sikalastic® Vehicular Traffic 2530 traffic deck coatings when inclement weather is present or imminent.
- Do not apply Sikalastic® Vehicular Traffic 2530 to

- damp, wet or contaminated surfaces
- Terminate Sikalastic®-350 at the base of vertical wall areas with a sealant cant bead. It may be required to cover the sealant cant bead and up the wall with either Sikalastic® Vehicular Traffic 2500 or Sikalastic® TC 225.
- Proper application is the responsibility of the user. Field visits by Sika personnel are for the sole purpose of making technical recommendations only and not for supervising or providing quality control on the jobsite.
- On steep ramps in excess of 15%, contact your local Sika representative. Do not use self-leveling grade product on slopes greater than 15%.

## 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.

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

#### Concrete

1. Concrete must be fully cured (28 days), structurally sound, clean and dry (ASTM D 4263). All concrete surfaces (new and old) must be shot blasted to remove previous coatings, laitance and all miscellaneous surface contamination and to provide profile for proper adhesion. Abrasive shot blasting must occur after concrete repair has taken place. Acid-etching is not permitted. Proper profile should be a minimum of ICRI CSP- 3 (as described in ICRI document 03732.) For balconies and other pedestrian areas with limited space or access for shot-blasting, alternative mechanical methods can be used to achieve the recommended surface profile.
2. Repair voids and delaminated areas with Sika branded cementitious and epoxy patching materials. For application when fastturn repairs are required, Sikalastic®-350 can be used to repair patches up to 1.5" in depth when used in aggregate slurry mix. Please refer to the Sikalastic®-350

product Data sheet for proper application techniques.  
3. All units must be applied within the specified pot life.

### Surface Pre-Striping and Detailing

1. For non-moving joints and cracks less than 1/16" (1.6 mm) wide, apply 25 wet mils (0.6 mm) prestriping of Sikalastic® M 270 NP. Sikalastic® M 270 NP must be applied to fill and overlap the joint or crack 3" (76 mm) on each side. Feather the edges.
2. Dynamic cracks and joints over 1/16" (1.6 mm) wide must be routed to a minimum of ¼ by ¼" (6 by 6 mm) and cleaned. Install bond breaker tape to prevent adhesion to bottom of joint. Prime joint faces only with Sika® Primer-173 and fill with Sikaflex® SL 1™, NP1™. For joints deeper than ¼" (6 mm), use appropriate backer rod. For cracks, sealant should be flush with the adjacent surface. For expansion joints, sealant should be slightly concave. After the sealant has cured, apply 25–30 wet mils (0.64–0.77 mm) of Sikalastic® M 270 NP pre-striping over the cured sealant, overlap the joint 3" (76 mm) on each side.
3. Sealed joints 1" (25 mm) wide or less can be coated over with the Sikalastic® Traffic system. Expansion joints exceeding 1" (25 mm) wide, including the primary wide expansion-joint system, are not to be coated so they can perform independently of the deck coating system.
4. Form a sealant cant into the corner at the junction of all horizontal and vertical surfaces (wall sections, curbs, columns) by priming with Sika® Primer-173 and applying a 1" (25 mm) wide bead of Sikaflex® NP 1. Tool to form a 45° cant. Apply masking tape to the vertical surfaces 4–5" (102–127 mm) above the sealant cant to provide a clean termination of the vertical detail coat. After the sealant has cured, apply 25 wet mils (0.64 mm) of Sikalastic® M 270 NP over the cured cant up to the masking tape and 4" (102 mm) onto deck surface.
5. Where the coating system will be terminated and no wall, joint, or other appropriate break exists, cut a ¼ by ¼" (6 by 6 mm) keyway into the concrete. Fill and coat keyway during application of Sikalastic® M 270 NP.
6. Form a sealant cant into the corner at the junction of all horizontal and vertical surfaces (wall sections, curbs, columns) by priming with Sika® Primer-173 and applying a 1" (25 mm) wide bead of Sikaflex® NP 1. Tool to form a 45° cant. Apply masking tape to the vertical surfaces 4–5" (102–127 mm) above the sealant cant to provide a clean termination of the vertical detail coat. After the sealant has cured, apply 25 wet mils (0.64 mm) of Sikalastic® M 270 NP over the cured cant up to the masking tape and 4" (102 mm) onto deck surface.

7. In locations of high movement such as wall and slab intersections, a reinforcing fabric is required. After the sealant cant bead is applied and cured, apply 25 wet mils of Sikalastic® M 270 NP over the sealant and embed Sikalastic® Fleece-996 reinforcing fabric into the wet detail coat.

### Uncoated Metal Surfaces

1. Remove dust, debris and any other contaminants from vent, drain pipe and post penetrations, reglets and other metal surfaces. Clean surfaces to near white per SSPC-NACE2 and prime immediately with Sika® Primer-173. Provide appropriate cant with Sikaflex® NP 1 or Sikaflex® NP 2 sealants to eliminate 90° angles.

### MIXING

Please refer to the specific PDS for Mixing Instructions

### APPLICATION

Sikalastic® Vehicular Traffic 2530 can be installed in several configurations, depending upon the degree of traffic to which the system is exposed. In areas of extreme traffic (turning lanes, pay booths, entrances and exits), apply the Extra Heavy-Duty Traffic System. The following summary briefly describes each configuration. All coverage rates are approximate.

### HEAVY DUTY TRAFFIC SYSTEM

1. Prime substrate if required, consult your Sika Representative
2. Apply 25 wet mils of Sikalastic® M 270 NP with proper notched squeegee at the rate of 50–60 ft<sup>2</sup> / gal (1.2–1.5 m<sup>2</sup> /L). Allow basecoat to cure 3–4 hours minimum. Sikalastic®-350 must be applied to the cured Sikalastic® M 270 NP within 24 hours.
3. Apply 20–25 wet mils of the mixed Sikalastic®-350 with proper notched squeegee at the rate of 60–80 ft<sup>2</sup> /gal (1.6–2.0 m<sup>2</sup> /L). Place the epoxy to permit a continuous operation by applying the second mix immediately behind the first mix.
4. Immediately broadcast aggregate # 9 to complete saturation (approximately 1.1 lb/ ft<sup>2</sup>). If wet spots develop immediately broadcast additional aggregate until a dry surface is reestablished. On large areas, work small sections to ensure aggregate is applied before the membrane begins to skin over.
5. Remove excess aggregate by sweeping, blowing, or vacuuming.
6. Apply 15–20 wet mils of the mixed Sikalastic®-350

with proper notched squeegee at the 80–100 ft<sup>2</sup> /gal (0.4–0.5 m<sup>2</sup> /L). Place the epoxy to permit a continuous operation by applying the second mix immediately behind the first mix. As a possible option, steps 3 and 6 can be combined to apply a single epoxy topcoat at 35–40 wet mils. Contact your local Sika representative for assistance.

7. Immediately broadcast Aggregate # 9 to complete saturation (approximately 1.1 lb/ ft<sup>2</sup>). If wet spots develop, immediately broadcast additional aggregate until a dry surface is reestablished. On large areas, work small sections to ensure aggregate is applied before the membrane begins to skin over.

8. Allow a minimum cure time of 6 hrs at 70 °F (21 °C) for Sikalastic®-350 before allowing vehicular traffic.

9. For outdoor applications: Apply 20 wet mils of Sikalastic® TC 295 topcoat using a properly notched squeegee at the rate of approximately 55–75 ft<sup>2</sup> /gal. Immediately backroll to evenly level topcoat.

### EXTRA HEAVY DUTY TRAFFIC SYSTEM

1. Prime substrate if required, consult your Sika Representative.

2. Apply 25 wet mils of Sikalastic® M 270 NP with proper notched squeegee at the rate of 50–60 ft<sup>2</sup> /gal (1.2–1.5 m<sup>2</sup> /L). Allow basecoat to cure 3–4 hours minimum. Sikalastic®-350 must be applied to the fully cured Sikalastic® M 270 NP within 24 hours.

3. Apply 40 wet mils of the mixed Sikalastic®-350 topcoat with proper notched squeegee at the 35–40 ft<sup>2</sup> /gal (0.9–1.0 m<sup>2</sup> /L). Place the epoxy to permit a continuous operation by applying the second mix immediately behind the first mix.

4. Immediately broadcast Aggregate # 9 to complete saturation (approximately 1.1 lb/ ft<sup>2</sup>). If wet spots develop, immediately broadcast additional aggregate until a dry surface is reestablished. On large areas, work small sections to ensure aggregate is applied before the membrane begins to skin over.

5. Remove excess aggregate by sweeping, blowing or vacuuming.

6. Apply 40 wet mils of the mixed Sikalastic®-350 topcoat with proper notched squeegee at the 35–40 ft<sup>2</sup> /gal (0.9–1.0 m<sup>2</sup> /L). Place the epoxy to permit a continuous operation by applying the second mix immediately behind the first mix.

7. Immediately broadcast Aggregate # 9 to complete saturation (approximately 1.1 lb/ ft<sup>2</sup>). If wet spots develop, immediately broadcast additional aggregate until a dry surface is reestablished. On large areas, work small sections to ensure aggregate is applied

before the membrane begins to skin over.

8. Allow a minimum cure time of 6 hrs at 70 °F (21 °C) for Sikalastic®-350 before allowing vehicular traffic.

9. For outdoor applications: Apply 20 wet mils of Sikalastic® TC 295 topcoat using a properly notched squeegee at the rate of approximately 55–75 ft<sup>2</sup> /gal. Immediately backroll to evenly level topcoat.

### IMPORTANT NOTE:

All coverage rates are approximate and may vary due to texture, porosity of the substrate, size and type of aggregate used, temperature and application techniques used. In order to verify your coverage rates, a mockup is recommended. Sikalastic®-350 is not designed to be used as a decorative system and will discolor over time when exposed to UV light.

As an option, an elastomeric polyurethane topcoat such as Sikalastic® TC 295 can be applied over the top of the Sikalastic®-350 to change the final appearance. The systems listed in this data guide can be altered by Sika to suit particular site conditions. Contact your local Sika representative for assistance.

### MOCKUP

1. Provide mockup of at least 100 ft<sup>2</sup> (9.3 m<sup>2</sup>) to include surface profile, sealant joint, crack, flashing and juncture details and allow for evaluation of slip resistance and appearance.

2. Install mockup with specified coating types and with other components noted.

3. Locate where directed by architect.

4. Mockup may remain as part of work if acceptable to architect.

### CLEANING OF TOOLS

Clean all tools and equipment immediately after use with SikaSwell® 990 or xylene. Cured material must be removed mechanically.

### MAINTENANCE

#### MAINTENANCE

See Sikalastic® Traffic maintenance technical bulletin. Regular cleaning and maintenance will prolong the life of all polymer coatings systems, enhance their appearance and reduce any tendency to retain dirt.

## LEGAL DISCLAIMER

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

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### System Data Sheet

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