

## SYSTEM DATA SHEET

# Sikalastic® Vehicular Traffic 2000

POLYURETHANE WATERPROOFING, TRAFFIC-BEARING MEMBRANE SYSTEMS FOR VEHICULAR AREAS.

### PRODUCT DESCRIPTION

Sikalastic® Vehicular Traffic 2000 is a primerless system consisting of:

- Sikalastic® M 200, a one-component, moisture-curing polyurethane.
- Sikalastic® TC 275 – a two-component fast curing aromatic polyurethane top coat with outstanding mechanical properties, including high tensile strength, and excellent tear and abrasion resistance.
- Sikalastic® TC 295 – a high performance, two-component, aliphatic, polyaspartic-modified, high solids, polyurethane waterproofing coating for use as an intermediate or topcoat.

For projects specifying primer, please consult a Sika Representative.

### USES

Sikalastic® Vehicular Traffic 2000 may only be used by experienced professionals.

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

### SYSTEM INFORMATION

#### System Structure

- Sikalastic® M 200
- Sikalastic® TC 275
- Sikalastic® TC 295

#### Color

For color options, please refer to the corresponding Product Data Sheets

### CHARACTERISTICS / ADVANTAGES

- Meets EPA national requirements for VOC
- Fast turnaround reduces facility downtime
- 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 chloride resistance protects against chloride intrusion, extending the life of reinforced steel
- 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
- Versatile system can be used for interior or exterior applications, above grade and elevated concrete slabs
- Primerless system reduces labor and material costs

### APPROVALS / STANDARDS

- CSA S413
- ASTM C 957

## TECHNICAL INFORMATION

<b>Abrasion Resistance</b>	CS-17 Wheel, 1,000 g load, 1,000 cycles Primer / Basecoat / TC 275	100	ASTM D 4060
	CS-17 Wheel, 1,000 g load, 1,000 cycles Basecoat / TC 275 Intermediate / TC 295	47	ASTM D 4060

## APPLICATION INFORMATION

<b>Waiting / Recoat Times</b>	Allow curing time of 48 hours before vehicular use and 24 hours before 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

### FOR BEST PERFORMANCE

- Sikaflex® HY 100 and Sikaflex® HY150 should not be used in conjunction with this 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.
- Minimum application temperature is 40 °F (4 °C).
- If areas of inadequate slip resistance exist, an additional top coat back rolled with aggregate is required.
- 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 (21 MPa) and be cured for a minimum of 28 days.
- Do not apply Sikalastic® Vehicular Traffic 2000 to concrete slabs on grade, unvented metal pan decks or split slab applications with a waterproofing membrane between slabs. Contact SikaTechnical Services.
- Be sure to allow for movement in the deck by the proper design and use of expansion and control joints.
- Select the proper type and amount of aggregate to achieve desired slip resistance.
- Contact Technical Service when substrates are over 90 °F (32 °C) or under 40 °F (4 °C) or when applying to decks containing between-slab membranes.
- Avoid application when inclement weather is present or imminent.
- Do not subject to ponding water or continuous immersion.
- Do not apply to damp, wet, or contaminated surfaces.

- 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 a between-slab membrane requires further technical evaluation and priming with a moisture tolerant primer - contact Sika regarding recommendations.
- Proper application is the responsibility of the user. Field visits by Sika personnel are for the 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%. Do not coat expansion joints over 1" (25 mm) wide.

## 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 200. Sikalastic® M 200 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® SL1, 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. Once the sealant is cured the lines should be prestriped with base coat Sikalastic® M 200, 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. Where the coating system will be terminated and no wall, joint or other appropriate break exists, cut a ¼" by ¼" (6 x 6 mm) keyway into the concrete. Fill and coat keyway during application of Sikalastic® M 200.
5. 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 200 over the cured cant up to the masking tape and 4" (102 mm) onto deck surface.

6. 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 200 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® NP1 / NP2. Apply a detail coat of 25 wet mils of Sikalastic® M 200 over the primed metal and sealant.

### Plywood

1. All plywood must be smooth-faced, APA-stamped and exterior grade tongue and groove. Construction must conform to code, but plywood must not be less than 23/32" (20 mm) thick. Plywood spacing and deck construction must follow APA guidelines.
2. Surfaces must be free of contaminants. Priming is not necessary on clean, dry plywood.
3. All seams must be caulked with Sikaflex® NP 1 or Sikaflex® NP 2 sealants. Pre-stripe 4–6" (102–152 mm) wide with 25 wet mils (0.64 mm) of Sikalastic® M 200. Reinforce all seams between plywood sheets and between flashing and the plywood deck by embedding Sikalastic® Fleece-996 Reinforcing Fabric into the pre-striping.

## MIXING

Please refer to the specific PDS for Mixing instructions.

## APPLICATION

### PRIMER

NOTE: When primer is required on a job, follow these steps. When applying Sikalastic® Vehicular Traffic 2000 without using a primer, proceed to Application.

1. After thoroughly vacuuming the surface, apply the selected primer to all the properly prepared deck surfaces based on the proper recommendation on the Product Data Sheet. Do not apply over pre-striping. Use only solvent-resistant tools and equipment.
2. Allow primer to dry tack free. Base Coat must be applied the same working day.

### APPLICATION

- All preparatory work must be completed before application begins. Be certain the substrate is clean, dry, stable, and properly profiled. Sealants and pre-striping should be properly cured. Apply the base, mid, and finish coats with a properly sized squeegee to arrive at the required mil thicknesses.
- 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 Sikalastic® Vehicular Traffic 2000 needed for each grid to arrive at the required mil thicknesses. For example, one pail of Sikalastic® M 200 will cover an area approximately 300 ft<sup>2</sup> (28 m<sup>2</sup>), or a grid 30 by 10 ft (9 by 3 m) at 25 wet mils (0.6 mm). The mil thickness of all coats can also be verified by the use of a wet-mil thickness gauge. Coverage rates may vary depending on the texture of the substrate or coating below
- Extend the curing time in cool or dry weather conditions. The surface of the base coat should have a slight tack. If the coating has been exposed for a prolonged period, consult Technical Service for recommendations.
- Sikalastic® Vehicular Traffic 2000 can be applied using several methods, 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 method. All coverage rates are approximate.

## LIGHT- TO MEDIUM- DUTY TRAFFIC SYSTEM

1. Prime substrate if required, consult your Sika Representative
2. Apply 25–30 wet mils (0.6–0.8 mm) (20–30 dry mils) of Sikalastic® M 200 with a proper notched squeegee at the rate of approximately 50–60 ft<sup>2</sup>/gallon (1.5 m<sup>2</sup>/L). Immediately backroll to level base coat. Allow to cure overnight.
3. Apply 15–20 wet mils (0.38–0.64 mm) of Sikalastic® TC 275 / TC 295 Top Coat at the rate of approximately 80–100 ft<sup>2</sup>/gallon (2.4 m<sup>2</sup>/L).
4. BROADCAST AND BACKROLL METHOD - Immediately broadcast aggregate 16-30 or equivalent rounded silica sand at the rate of 10–15 lbs/100 ft<sup>2</sup> (0.5–0.75 kg/m<sup>2</sup>) into wet Sikalastic® TC 275 / TC 295 and back roll to encapsulate.
5. Allow minimum curing time of 24–48 hours curing time before allowing vehicular traffic onto the coating. Existing environmental conditions effect the allowable time period.

## HEAVY-DUTY TRAFFIC SYSTEM

1. Prime substrate if required, consult your Sika Representative
2. Apply 25–30 wet mils (0.6–0.8 mm) of Sikalastic® M 200 with a proper notched squeegee at the rate of approximately 50–60 ft<sup>2</sup>/ gallon (1.3–1.5 m<sup>2</sup>/L). Immediately backroll to level base coat. Allow to cure overnight.
3. Apply 15 mils (0.4 mm) of Sikalastic® TC 275 / TC 295 intermediate topcoat using a properly notched squeegee at the rate of approximately 100 ft<sup>2</sup>/gal. (2.5 m<sup>2</sup>/L). Immediately back roll to evenly level Topcoat. The next step, #4, can utilize either method described in 4A or 4B.
4. AGGREGATE  
4A. AGGREGATE TO REFUSAL METHOD - Immediately broadcast aggregate 16-30 or equivalent rounded silica sand into the wet coating at the rate of 20–25 lbs per 100 ft<sup>2</sup> (1.0–1.25 kg/m<sup>2</sup>). Immediately after the aggregate broadcast and while the coating is still wet, blow any excess aggregate via a portable blower forward into the wet coating. Do not over apply aggregate; it is acceptable to have localized wet spots in the aggregate surface after completion of this method. This process requires coordination between all members in the work crew. The blower operator, wearing clean spiked shoes, should blow the excess aggregate forward towards the freshly applied and back rolled topcoat. In this method, the coating should not accept additional sand, minimal

excess aggregate is on the surface, less aggregate is used and the textured appearance should be fairly uniform.

**4B. BROADCAST AND BACKROLL METHOD** - Immediately broadcast aggregate 16-30 or equivalent rounded silica sand into the wet coating and back roll to encapsulate the aggregate. Evenly broadcast aggregate at the rate of 10–15 lbs per 100 ft<sup>2</sup> (0.5–0.75 kg/m<sup>2</sup>).

5. Remove all excess or loose aggregate by sweeping or vacuuming.

6. Ensure there is no moisture on the surface of the aggregate/membrane before application of topcoat. Apply 15–20 wet mils (0.38–0.64 mm) of Sikalastic® TC 275 / TC 295 at the rate of 60–100 ft<sup>2</sup>/gal (1.5–2.5 m<sup>2</sup>/L) using a flat squeegee. Immediately back roll to evenly level top coat.

7. Immediately broadcast aggregate 16-30 or equivalent rounded at the rate of 3–5 lbs/100 ft<sup>2</sup> (0.15–0.25 kg/m<sup>2</sup>). Lightly backroll into top coat.

8. Allow minimum curing time of 24–48 hours before allowing vehicular traffic onto the coating. Existing environmental conditions effect the allowable time period

#### **EXTRA-HEAVY DUTY SYSTEM**

1. Prime substrate if required, consult your Sika Representative

2. Apply 25–30 wet mils (0.6–0.8 mm) of Sikalastic® M 200 with a proper notched squeegee at the rate of approximately 50–60 ft<sup>2</sup>/gallon (1.3–1.5 m<sup>2</sup>/L). Immediately back roll to level base coat. Allow to cure overnight.

3. Apply 20–25 wet mils (0.51–0.64 mm) of Sikalastic® TC 275 / TC 295 intermediate topcoat using a properly notched squeegee at the rate of approximately 60–80 ft<sup>2</sup>/gal. (1.5–2.0 m<sup>2</sup>/L). Immediately back roll to evenly level topcoat. The next step, #4, can utilize either method described in 4A or 4B.

**4. AGGREGATE**

**4A. AGGREGATE TO REFUSAL METHOD** - Immediately broadcast aggregate 16-30 or equivalent rounded silica sand into the wet coating at the rate of 25–35 lbs per 100 ft<sup>2</sup> (1.25–1.75 kg /m<sup>2</sup>). Immediately after the aggregate broadcast and while the coating is still wet, blow any excess aggregate via a portable lower forward into the wet coating. Do not over apply aggregate; it is acceptable to have localized wet spots in the aggregate surface after completion of this method. This process requires coordination between all of the members in the work crew. The blower operator, wearing clean spiked shoes, should blow the excess

aggregate forward towards the freshly applied and back rolled topcoat. In this method, the coating should not accept additional sand, minimal excess aggregate is on the surface, less aggregate is used and the textured appearance should be fairly uniform.

#### **4B. BROADCAST AND BACKROLL METHOD**

Immediately broadcast aggregate 16-30 or equivalent rounded silica sand into the wet coating and back roll to encapsulate the aggregate. Evenly broadcast aggregate at the rate of 13–20 lbs per 100 ft<sup>2</sup> (0.83–1.0 kg/m<sup>2</sup>).

5. Remove all excess or loose aggregate by sweeping or vacuuming.

6. Ensure there is no moisture on the surface of the aggregate/membrane before application of topcoat. Apply 15–20 wet mils (0.38–0.64 mm) of Sikalastic® TC 275 / TC 295 at the rate of 80–100 ft<sup>2</sup>/gal (1.5–2.5 m<sup>2</sup>/L) using a flat squeegee. Immediately back roll to evenly level top coat.

7. Immediately broadcast aggregate 16-30 or equivalent rounded at the rate of 3–5 lbs/100 ft<sup>2</sup> (0.15–0.25 kg/m<sup>2</sup>). Lightly back roll into top coat.

8. Allow minimum curing time of 24–48 hours before allowing vehicular traffic onto the Technical Data Guide Sikalastic® Vehicular Traffic 2000 coating. Existing environmental conditions effect the allowable time period.

**IMPORTANT NOTE:** All coverage rates are approximate and may vary due to the application technique used. Coverage rates are affected by substrate texture, choice and distribution of aggregate, environmental conditions and application methods and are not under the control of Sika. Ensure that an adequate amount of aggregate is utilized to achieve required slip resistance. Exterior applications must utilize Sikalastic® TC 295 at the specified coverage rate of 15–20 wet mils

#### **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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