

## SYSTEM DATA SHEET

# Sikalastic® Pedestrian Traffic 2000 Low VOC

POLYURETHANE WATERPROOFING, TRAFFIC-BEARING MEMBRANE FOR PEDESTRIAN AREAS

### PRODUCT DESCRIPTION

Sikalastic® Pedestrian Traffic 2000 Low VOC is a system consisting

- Sikalastic® M 205, a low VOC one-component, moisture-curing polyurethane
- Sikalastic® TC 275 – a two-component fast curing aromatic polyurethane 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® Pedestrian Traffic 2000 Low VOC may only be used by experienced professionals.

- Stadiums
- Parking Garages
- Plaza Decks
- Building and Restoration
- Balconies (Plywood)

### SYSTEM INFORMATION

#### System Structure

- Sikalastic® M 205
- Sikalastic® TC 275
- Sikalastic® TC 295

#### Color

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

### CHARACTERISTICS / ADVANTAGES

- Primerless system reduces labor and material costs
- Meets EPA national requirements for VOC
- Fast turnaround reduces facility downtime
- Seamless waterproof membrane protects concrete from freeze/thaw damage
- 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

### 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 D4060
	CS-17 Wheel, 1,000 g load, 1,000 cycles Basecoat / TC275 / TC 295	47	ASTM D4060

## APPLICATION INFORMATION

<b>Test Results</b>	Allow curing time of 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

- 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® Pedestrian Traffic 2000 Low VOC 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 apply to damp, wet, or contaminated surfaces.
- Not suitable for use where chained or metal-studded tires will be used.
- 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.
- Sikalastic® TC 275 will discolor if exposed to UV light. Where UV resistance is required, the application of Sikalastic® TC 295 is recommended.
- Colors exposed to direct sunlight may fade over a period of time. Darker colors potentially fade at an increased rate.
- Aggregate and substrate conditions may affect color and appearance.
- Flake and quartz coverage will vary based on the size or grade of the material. Please reference table below for your respective, estimated coverate rate.

FLAKE SIZE	FULL COVERAGE	PARTIAL COVERAGE
1"	8-10 sq ft/lb	25-250 sq ft/lb
1/2"	7-9 sq ft/lb	25-250 sq ft/lb
1/4"	5-7 sq ft/lb	25-250 sq ft/lb
1/8"	4-6 sq ft/lb	25-250 sq ft/lb
1/16"	3-5 sq ft/lb	25-250 sq ft/lb
1/32"	2-4 sq ft/lb	25-250 sq ft/lb

QUARTZ	COVERAGE
40-S	1/2-1 lb/sq ft
25-A	1-2 lb/sq ft

### FOR BEST PERFORMANCE: TC 295 TINT BASE ONLY

- Avoid whipping air into Tint Base.
- Mix pigment cans thoroughly into Tint Base.
- Always do a test area to assure acceptable color appearance and slip resistance.
- Do not apply Sikalastic® TC 295 Tint Base heavier than the recommended 15–20 mil (0.38–0.51 mm) application.



- Colors exposed to direct sunlight may fade over a period of time. Darker colors potentially fade at an increased rate.
- Aggregate and substrate conditions may affect color and appearance.

## 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 205. Sikalastic® M 205 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. Fill joints deeper than ¼" (6 mm) with appropriate backer rod and Sikaflex® SL 1™/ SL 2™ (slope grade or selfleveling) or Sikaflex® NP 1™/ NP 2™. 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 205,

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" x ¼" (6 x 6 mm) keyway into the concrete. Fill and coat keyway during application of Sikalastic® M 205.

5. Form a sealant cant into the corner at the junction of all horizontal and vertical surfaces (wall sections, curbs, columns) and apply a 1" (25 mm) wide bead of Sikaflex® NP 1™/ NP 2™. 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 205 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 205 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 with appropriate Sikaflex primer. Provide appropriate cant with Sikaflex® NP 1™/ NP 2™. Apply a detail coat of 25 wet mils of Sikalastic® M 205 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™/ NP 2™ sealants. Pre-stripe 4–6" (102–152 mm) wide with 25 wet mils (0.64 mm) of Sikalastic® M 205. 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® Pedestrian Traffic 2000 Low VOC 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-stripping. 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-stripping 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® Pedestrian Traffic 2000 Low VOC needed for each grid to arrive at the required mil thicknesses. For example, one pail of Sikalastic® M 205 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® Pedestrian Traffic 2000 Low VOC 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.

#### PEDESTRIAN SYSTEMS

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 205 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). NOTE: If applying a decorative system with Sikalastic® TC 295 Clear, follow step 4B and the optional step 5 for proper application with SikaTop DE flake or quartz materials.
4. AGGREGATE
  - 4A. BROADCAST AND BACKROLL METHOD - Immediately broadcast aggregate or equivalent 16–30 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.
  - 4B. DECORATIVE FLAKE OR QUARTZ -Immediately broadcast, by hand or mechanical blower, SikaTop DE flake at a rate of 5-7 sf/lb or quartz at a rate of 0.5-1 lb/sf into the wet receiving coat. Broadcast to refusal, making certain the entire surface is saturated, exhibiting a dry appearance. Allow to cure. Once cured, sweep, stone and vacuum the excess flake or quartz.
5. OPTIONAL– If applying a decorative system with Sikalastic® TC 295 Clear, apply at a rate of 100–110 ft<sup>2</sup>/gallon (2.4 m<sup>2</sup>/L) using a flat squeegee. Immediately backroll with a 3/8" nap roller in a crosshatch pattern.
6. 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.

**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.

#### MOCK UP

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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