BUILDING TRUST

SYSTEM DATA SHEET

Sikalastic® Pedestrian Traffic 2500

HIGH-SOLIDS POLYURETHANE WATERPROOFING, TRAFFIC-BEARING MEMBRANE SYSTEM FOR PEDESTRIAN AREAS.

PRODUCT DESCRIPTION

Sikalastic® Pedestrian Traffic 2500 is a fluid-applied polyurethane waterproofing system using a fast-setting, two-component reactive curing mechanism. It has very low odor and is VOC compliant.

Sikalastic® Pedestrian Traffic 2500 is composed of:
- Sikalastic® M 270 NP, a two-component, fast-curing polyurethane base coat.
- 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 2500 may only be used by experienced professionals.

- Stadiums
- Balconies
- Commercial Construction
- Building and Restoration
- Plywood Decks
- Plaza Decks

CHARACTERISTICS / ADVANTAGES

- Two-component system provides faster setting times, even in cooler climates, to help reduce facility downtime
- Low odor/high solids allow Sikalastic® Pedestrian Traffic 2500 to be used over or near inhabited structures; Non-flammable and solvent-free
- Seamless waterproof membrane helps protect concrete from freeze/thaw damage
- Excellent chemical and chloride resistance helps protect against common parking deck chemicals including gasoline, diesel fuel, oil, alcohol, ethylene glycol, de-icing salt, bleach and cleaning agents as well as chloride intrusion
- Provides skid resistance to increase safety and offers excellent durability and superior abrasion resistance

APPROVALS / STANDARDS

- CSA S413
- ASTM C 957

SYSTEM INFORMATION

System Structure	▪ Sikalastic® M 270 NP ▪ Sikalastic® TC 275 ▪ Sikalastic® TC 295
Composition	100% solids
Color	For color options, please refere to the Product Data Sheets

TECHNICAL INFORMATION

Abrasion Resistance	CS-17 Wheel, 1,000 g load, 1,000 cycles Sikalastic® M 270 NP / TC 275 (mgms)	100	ASTM D 4060
	CS-17 Wheel, 1,000 g load, 1,000 cycles Sikalastic® M 270 NP / TC 275 / TC 295 (mgms)	47	FASTM D 4060

APPLICATION INFORMATION

Test Results	Allow curing time of 24 hours before pedestrian use. Extend the curing time in cool-weather conditions.

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.
- Sikalastic® M 270 NP and TC 275 or TC 295 have very short working times (20 min ± 5)(at 70 ˚F 50% RH). Once the material has been mixed, the coating must be poured onto the surface and applied immediately.
- Sikalastic® TC 275 will discolor if exposed to UV light. Where UV resistance is required, the application of TC 295 is recommended.
- 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 2500 to concrete slabs on grade, unvented metal pan decks or split slab applications with a waterproofing membrane between slabs. Contact Sika Technical 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.
- 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. For example, one pail of Sikalastic® M 270 NP should cover approximately 255–280 ft² or a minimum grid of 16 x 16 ft at 25 wet mils. Verify via site mockup.
- 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 metalstudded 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.
- CAD & PDF deck coatings details are available for download from our website, Sika Customer Support

can direct you to the site.
- 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.
- 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 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 1/4 by 1/4" (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-stripping 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 1/4 by 1/4" (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.

Plywood

1. All plywood must be smooth-faced, APA-stamped, and exterior grade tongue and groove plywood. Construction must conform to code, but plywood must not be less than 23⁄32" (18 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. Prestripe 4–6" (102–152 mm) wide with 25 wet mils (0.6 mm) of Base Coat. Reinforce all seams between plywood sheets and between flashing and the plywood deck by embedding Sikalastic® Fleece-996 into the pre-striping.

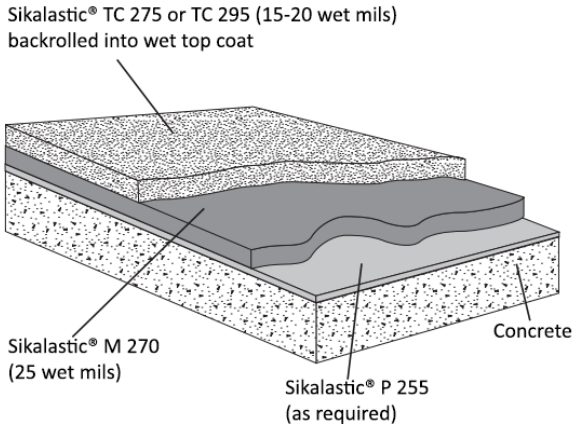
MIXING

Please refer to the specific PDS for Mixing instructions.

APPLICATION

Sikalastic® Pedestrian Traffic 2500 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 per the Sikalastic® Pedestrian Traffic 2500 technical data guide. The following summary briefly describes the pedestrian configuration. All coverage rates are approximate.

PEDESTRIAN SYSTEM



1. Prime substrate if required, consult your Sika Representative
2. Apply 25 wet mils (0.64 mm) of Sikalastic® M 270 NP with proper notched squeegee at the rate of approximately 55–60 ft^2 /gal (1.35–1.47 m^2 /L). Allow base coat to cure 3–4 hours.
3. Apply 15–20 wet mils (0.38–0.51 mm) of Sikalastic® TC 275 / TC 295 at the rate of 80–100 ft^2 /gal (1.96–2.45 m^2 /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. Immediately broadcast aggregate or 16–30 mesh, rounded silica sand at the rate of 15–20 lbs/100 ft^2 (0.75–1.0 kg/m^2) into Sikalastic® TC 275 / TC 295 and backroll 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^2 /gallon (2.4 m^2/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 before allowing vehicular traffic onto the coating.

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, intermediate aggregate load and 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^2 (9.3 m^2) 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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