



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 is a very low-odour system.

Sikalastic® Vehicular Traffic 2530 is composed of:

- Sikalastic® M 270 NP: Two-component, fast-curing polyurethane base coat
- Sikalastic®-350: Two-component, fast-curing epoxy top coat
- Sikalastic® TC 295: High performance, two-component, aliphatic, polyaspartic-modified, high-solids, polyurethane waterproofing coating
- Sika® Aggregate 229

Optional components

Primer*

Sikalastic® P 255: Polyurethane-based primer for Sikalastic® deck coatings

*For projects specifying primer, please consult a Sika Representative.

WHERE TO USE

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

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 / CERTIFICATES

- CSA S413
- ASTM C 957

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SYSTEMS

System Structure

- Sikalastic® M 270 NP
- Sikalastic®-350
- Sikalastic® TC 295

Composition

Epoxy/Polyurethane, 100 % solids

Colour

Refer to the individual Product Data Sheets

APPLICATION INFORMATION

Applied Product Ready for Use

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

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

LIMITATIONS

Sikalastic® Vehicular Traffic 2530 is designed for professional use only; not for sale to or use by the general public.

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.

- Sikaflex® HY-100 and Sikaflex® HY-150 sealants should not be used in conjunction with these urethane deck coating system due to potential for curing issues.
- If vapour drive is present or suspected, please consult with your local Sika Technical 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 4 °C (40 °F). Contact Sika Canada's Technical Service when temperatures are above 32 °C (90 °F)
- 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 3000 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.
- On steep ramps in excess of 15 %, contact your local Sika representative. Do not use self-leveling grade product on slopes greater than 15 %.

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Concrete

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

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concrete repair has taken place. Acid-etching is not permitted. Proper profile should be a minimum of ICRI CSP- 3 (as prescribed 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. Repair voids and delaminated areas with appropriate Sika® cementitious and epoxy patching materials. For application when fastturn repairs are required, Sikalastic®-350 can be used to repair patches up to 38.1 mm (1.5 in) in depth when used in aggregate slurry mix. Please refer to the Sikalastic®-350 product Data sheet for proper application techniques. All units must be applied within the specified pot life.

Surface Pre-Striping and Detailing

Non-moving joints and cracks less than 1.6 mm (1/16 in) 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 76 mm (3 in) on each side. Feather the edges.

Dynamic cracks and joints over 1.6 mm (1/16 in) wide

Must be routed to a minimum of 6 mm x 6 mm (¼ in x ¼ in) 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 6 mm (¼ in), 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 76 mm (3 in) on each side.

Sealed joints 25 mm (1 in) wide or less

May be overcoated over with the Sikalastic® Traffic system.

Expansion joints exceeding 25 mm (1 in) wide, including the primary wide expansion-joint system

Must not be coated so they can perform independently of the deck coating system. 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 25 mm (1 in) wide bead of Sikaflex® NP 1. Tool to form a 45° cant. Apply masking tape to the vertical surfaces 102–127 mm (4–5 in) 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 102 mm (4 in) onto deck surface. Where the coating system will be terminated and no wall, joint, or other appropriate break exists, cut a 6 mm x 6 mm (¼ x ¼ in) keyway into the concrete. Fill and coat keyway during application of Sikalastic® M 270 NP. 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 25 mm (1 in) wide bead of Sikaflex® NP 1. Tool to form a 45° cant. Apply masking tape to the vertical surfaces 102–127 mm (4–5 in) 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 102 mm (4 in) onto deck surface. 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 mil of Sikalastic® M 270 NP over the sealant and embed Sikalastic® Fleece-996 reinforcing fabric into the wet detail coat.

Uncoated Metal Surfaces

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

Refer to the individual Product Data Sheets 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

- Prime substrate is required, consult your Sika Representative
- Apply Sikalastic® M 270 NP at 25 wet mil, with an

appropriate notched squeegee, at a rate of 1.2–1.5 m²/L (50–60 ft²/US gal). Allow basecoat to cure 3–4 hours minimum. Sikalastic®-350 must be applied to the cured Sikalastic® M 270 NP within 24 hours.

- Apply the mixed Sikalastic®-350 at 20–25 wet mil, with an appropriate notched squeegee at the rate of 1.6–2.0 m²/L (60–80 ft²/US gal). Place the epoxy to permit a continuous operation by applying the second mix immediately behind the first mix.
- Immediately broadcast aggregate aggregate # 9 to complete saturation (approximately 1.1 lb/ft²). 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.
- Remove excess aggregate by sweeping, blowing, or vacuuming.
- Apply the mixed Sikalastic®-350 at 15–20 wet mil, with an appropriate notched squeegee at a rate of 0.4–0.5 m²/L (80–100 ft²/US gal). 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 mil. Contact your local Sika Technical Representative for assistance.
- Immediately broadcast Aggregate # 9 to complete saturation (approximately 1.1 lb/ft²). 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.
- Allow a minimum cure time of 6 hours at 21 °C (70 °F) for Sikalastic®-350 before allowing vehicular traffic.
- For outdoor applications: Apply Sikalastic® TC 295 topcoat at 20 wet mil, with an appropriate notched squeegee, at a rate of approximately 55–75 ft²/US gal. Immediately backroll to evenly level topcoat.

EXTRA HEAVY-DUTY TRAFFIC SYSTEM

- Prime substrate is required, consult your Sika Technical Representative.
- Apply Sikalastic® M 270 NP at 25 wet mil, with an appropriate notched squeegee, at a rate of 1.2–1.5 m²/L (50–60 ft²/US gal). Allow the basecoat to cure 3–4 hours minimum. Sikalastic®-350 must be applied to the fully cured Sikalastic® M 270 NP within 24 hours.
- Apply the mixed Sikalastic®-350 topcoat at 40 wet mil, with an appropriate notched squeegee, at a rate of 0.9–1.0 m²/L (35–40 ft²/US gal). Place the epoxy to permit a continuous operation by applying the second mix immediately behind the first mix.

- Immediately broadcast Aggregate # 9 to complete saturation (approximately 1.1 lb/ft²). 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.
- Remove excess aggregate by sweeping, blowing or vacuuming.
- Apply 40 wet mil of the mixed Sikalastic®-350 topcoat with proper notched squeegee at the 0.9–1.0 m²/L (35–40 ft²/gal). Place the epoxy to permit a continuous operation by applying the second mix immediately behind the first mix.
- Immediately broadcast Aggregate # 9 to complete saturation (approximately 1.1 lb/ft²). 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.
- Allow a minimum cure time of 6 hours at 21 °C (70 °F) for Sikalastic®-350 before allowing vehicular traffic.
- For outdoor applications: Apply Sikalastic® TC 295 topcoat at 20 wet mil, with an appropriate notched squeegee, at a rate of approximately 55–75 ft²/US 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 Technical Representative for assistance.

MOCKUP

Provide mockup of at least 9.3 m² (100 ft²) to include surface profile, sealant joint, crack, flashing and juncture details and allow for evaluation of slip resistance and appearance. Install mockup with specified coating types and with other components noted. Locate where directed by architect. Mockup may remain as part of

work if acceptable to architect.

CLEAN UP

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

MAINTENANCE

CLEANING

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 NOTES

The information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

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