

SYSTEM DATA SHEET

Sikalastic® Vehicular Traffic 2575

High solids polyurethane waterproofing and traffic-bearing membrane system for vehicular areas

PRODUCT DESCRIPTION

Sikalastic® Vehicular Traffic 2575 is a fluid-applied, low-odour polyurethane waterproofing system using fast-setting, two-component reactive curing mechanisms.

Sikalastic® Vehicular Traffic 2575 is composed of:

- Sikalastic® M 270 NP – two-component, fast-curing polyurethane base coat
- Sikalastic® TC 275 – two-component, fast-curing, aromatic polyurethane top coat
- Sikalastic® TC 295 – high performance, two-component, aliphatic, polyaspartic-modified, high-solids, polyurethane waterproofing coating

For projects specifying primer, consult Sika Canada.

WHERE TO USE

Sikalastic® Vehicular Traffic 2575 may only be used by experienced professionals.

- Stadiums
- Parking garages
- Commercial construction
- Building and restoration
- Plywood decks

SYSTEMS

System Structure

- Sikalastic® M 270 NP
- Sikalastic® TC 275
- Sikalastic® TC 295

Composition

100 % solids

Colour

For colour options, refer to the corresponding Product Data Sheets

CHARACTERISTICS / ADVANTAGES

- Provides skid resistance to increase safety and offers excellent durability and superior abrasion resistance
- Two-component system provides faster setting times, even in cooler conditions, to help reduce facility downtime
- Low odour/high solids allow Sikalastic® Vehicular Traffic 2575 to be used over or near inhabited structures
- Non-flammable and solvent-free
- Seamless waterproof membrane helps protect concrete from freeze/thaw damage; protects occupied spaces below from water damage and has no seams that may result in leaks
- 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

APPROVALS / CERTIFICATES

- CSA S413
- ASTM C957

TECHNICAL INFORMATION

Abrasion Resistance	CS-17 Wheel, 1000 g load/1000 cycles Sikalastic® M 270 NP / TC 275 / TC 295	47	ASTM D4060
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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.
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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

The User is responsible for the proper use of the product. Site visits by Sika personnel are for the sole purpose of providing technical recommendations and are in no way intended to supervise or control the quality of work on site.

- Do not use Sikaflex® HY 100 or Sikaflex® HY150 in conjunction with this urethane deck coating system due to potential for curing issues.
- If vapour drive is present or suspected, contact Sika Canada Technical Representative prior to system application.
- Minimum application temperature is 4 °C (40 °F). Contact Sika Canada Technical Representative when temperatures exceed 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 21 MPa (3000 psi) and be cured for a minimum of 28 days
- Do not apply the Sikalastic® Vehicular Traffic 2575 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 2575 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 2575 traffic deck coatings when inclement weather is present or imminent.
- Do not apply Sikalastic® Vehicular Traffic 2575 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 QUALITY

Concrete must be fully cured (28 days), structurally sound, clean and dry (ASTM D4263).

SUBSTRATE PREPARATION

Concrete

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. 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 mm (1.5 in) in depth when used in aggregate slurry mix. 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 Sikalastic® M 270 NP at 0.64 mm (25 mil) w.f.t. for pre-striping. 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 x ¼ in) and cleaned. Install bond breaker tape to prevent adhesion to bottom of joint. Fill joints deeper than 6 mm (¼ in) with appropriate backer rod and Sikaflex® SL 1 or SL 2 (slope grade or self-levelling) or Sikaflex® NP 1/ NP 2. For cracks, sealant should be flush with the adjacent surface. For expansion joints, sealant should be slightly concave. After the sealant has cured, apply a stripe of Sikalastic® M 270 NP at 0.64–0.77 mm (25–30 mil) w.f.t. over the cured sealant and overlapping the joint 76 mm (3 in) on each side.

Sealed joints of 25 mm (1 in) wide or less can be coated 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 applying a 25 mm (1 in) wide bead of Sikaflex® NP 1. Tool to form a 45 degree 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 a coat of Sikalastic® M 270 NP at 0.64 mm (25 mil) w.f.t. 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 in x ¼ in) keyway into the concrete. Fill and coat keyway during application of Sikalastic® M 270 NP.

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 a coat of Sikalastic® M 270 NP at 0.64

mm (25 mil) w.f.t. over the sealant and embed Sikalastic® Fleece-996 or Sika® Flexitape Heavy reinforcing fabric into the wet detail coat.

Uncoated Metal Surfaces

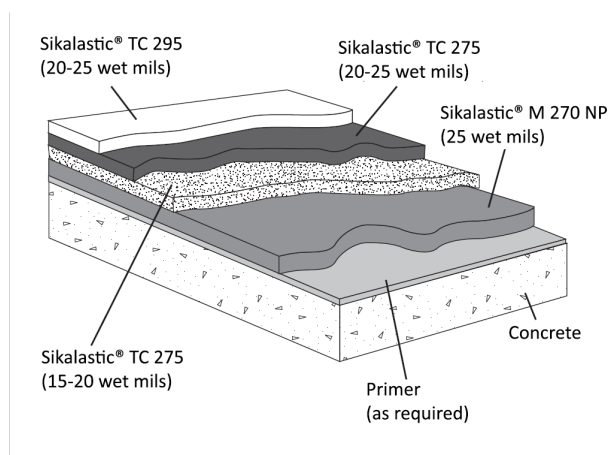
Remove dust, debris and any other contaminants from vent, drain pipe and post penetrations, reglets and other metal surfaces. Clean surfaces to near white per SSPC-NACE2 and prime with appropriate primer for Sikaflex® sealant. Provide appropriate cant with Sikaflex® NP 1 or Sikaflex® NP 2 sealant to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

MIXING

Please refer to the specific PDS for Mixing instructions

APPLICATION

SIKALASTIC® VEHICULAR TRAFFIC



- 1) Substrate priming is required
 - 2) Apply Sikalastic® M 270 NP at 0.63 mm (25 mil) w.f.t. with a proper notched squeegee. Apply at the rate of approximately 1.35– 1.47 m²/L (55–60 ft²/US gal). Immediately backroll to level base coat. Allow base coat to cure 3–4 hours.
 - 3) Apply Sikalastic® 275 intermediate top coat at 0.38–0.51 mm (15–20 mil) w.f.t. using a properly notched squeegee at the rate of approximately 1.96– 2.45 m²/L (80–100 ft²/US gal). Immediately backroll to evenly level topcoat. Broadcast the aggregate to refusal (see 4A below) or broadcast the aggregate and backroll (see 4B below).
 - 4). Aggregate application
- 4A) Aggregate broadcast to refusal method: Immediately

broadcast oven-dried aggregate, 16–30 or equivalent, rounded quartz sand into the wet coating at the rate of 1.0–1.75 kg/m² (20–35 lb/100 ft²). 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 backrolled 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 oven-dried aggregate, 16–30 or equivalent, rounded quartz sand into the wet coating and backroll to encapsulate the aggregate. Evenly broadcast aggregate at a rate of 0.75–1.25 kg/m² (15–25 lb/100 ft² /US gal).

5) Remove all excess or loose aggregate by sweeping or vacuuming. Ensure there is no moisture on the surface of the aggregate/membrane before application of next coat.

6) Apply the second intermediate coat of Sikalastic® TC 275 at 0.51–0.63 mm (20–25 mil) w.f.t. at a rate of 1.96–2.45 m²/L (60–80 ft²/US gal) repeating steps 4 through 6. The next step 4, can utilize either method described in 4A or 4B.

7) Apply Sikalastic® TC 295 at 0.51–0.63 mm (20–25 mil) w.f.t., at a rate of 1.96–2.45 m²/L (60–80 ft²/US gal) using a flat squeegee. Immediately backroll to evenly level topcoat. Immediately broadcast aggregate, 16–30 or equivalent, rounded quartz sand at the rate of 0.15–0.25 kg/m² (3–5 lb/100 ft²). Lightly backroll into top coat. Allow minimum curing time of 24–48 hours before allowing vehicular traffic onto the coating. Existing environmental conditions affect 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, 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 use Sikalastic® TC 295 at the specified thickness of

15–20 mil w.f.t.

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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