

SYSTEM DATA SHEET

Sikalastic® Vehicular Traffic 2850

Hybrid polyurethane-methyl methacrylate waterproofing, traffic-bearing membrane system

PRODUCT DESCRIPTION

Sikalastic® Vehicular Traffic 2850 is a fluid-applied, hybrid polyurethane-methyl methacrylate (MMA) waterproofing system. It allows for fast turnaround time while maintaining durability.

Sikalastic® Vehicular Traffic 2850 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 299FS – Solvent-free, two-component, 100 % reactive MMA resin
- Sikalastic® 918FS – Powder hardener to initiate the MMA cure
- Sikafloor PGM 155 Pronto – Powder pigment

WHERE TO USE

Sikalastic® Vehicular Traffic 2850 may only be used by experienced professionals.

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

SYSTEMS

System Structure

- Sikalastic® M 270 NP
- Sikalastic® TC 275
- Sikalastic® TC 299 FS

Colour

For colour options, refer to the corresponding Product Data Sheets

APPLICATION INFORMATION

CHARACTERISTICS / ADVANTAGES

- Two-component system utilizes flexible polyurethane and world-class MMA technologies
- Hybrid system provides waterproofing capabilities as well as faster setting times, even in cooler climates, to help reduce downtime
- High strength with excellent bonding capabilities to a variety of concrete substrates
- Seamless waterproof membrane helps protect concrete from freeze/thaw damage; protects occupied spaces below from water 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 / CERTIFICATES

- CSA S413
- ASTM C957

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

Warning

Sikalastic® Vehicular Traffic 2850 is a multiple component system that utilizes a methylmethacrylate (MMA) resin. It is critical that the instructions in the Safety Data Sheet and on the product label for every component of the system be read, understood and followed. MMA resins are flammable liquids in their uncured state. Smoking, open flames or sparks should not be permitted during the handling of this product. Explosion safe ventilation must be used during the application to minimize vapour collection in the installation area and to improve the overall air quality for the crew. MMA resins have a discernible odour. This smell makes people aware of the presence of MMA. The material has an extremely low odour threshold of 83 ppb (parts per billion) which dissipates upon curing (approx. 45 minutes to 1 hour). This low odour threshold can create concerns when working in areas where the public can be exposed to the odour. This odour, when below permissible exposure limits, does not pose a hazard. It is the responsibility of the applicator to insure proper ventilation is established on site to avoid potential odour concerns as well as communicate product expectations to tenants or the surrounding public. In cases where the general public may be affected, an exhaust system will need to be set up. This needs to be planned ahead of time in order to make certain that the proper equipment will be accessible on site. Many projects will require the “tenting off” of certain areas.

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.

- Sikaflex® HY100 and Sikaflex® HY150 sealants should not be used in conjunction with this urethane deck coating system due to potential for curing issues.
- If vapour drive is present or suspected, contact your Sika Canada Technical Representative prior to system application.
- Sikalastic® M 270 NP, TC 275 and TC 299 FS have very short working times (approx. 15 minutes) at 21 °C (70 °F) and 50 % RH. Once the material has been mixed,

the coating must be poured on the surface and applied immediately.

- Minimum application temperature is 4 °C (40 °F) for polyurethane materials.
- If areas of inadequate slip resistance exist, an additional top coat back rolled with aggregate is required (after cure).
- 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 Sikalastic® Vehicular Traffic 2850 to concrete slabs on grade, unvented metal pan decks or split slab applications with a waterproofing membrane between slabs. Contact your Sika Canada Technical Representative for more information.
- 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 your Sika Canada Technical Representative when substrate temperatures exceed 32 °C (90 °F) or are under 4 °C (40 °F) 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.
- CAD & PDF deck coatings details are available for download at www.sika.ca
- On steep ramps in excess of 15 %, contact your Sika Canada Technical Representative. Do not use self-levelling grade product on slopes greater than 15 %. Do not coat expansion joints over 25 mm (1 in) wide.

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

System Data Sheet

Sikalastic® Vehicular Traffic 2850

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BUILDING TRUST
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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 Sika® cementitious and epoxy patching materials. For application when fast turn repairs are required, Sikalastic®-350 can be used to repair patches up to 38 mm (1.5 in) in depth when used in the 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 P.

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 Sikaflex® Primer. Provide appropriate cant with Sikaflex® NP 1 or Sikaflex® NP 2 sealants to eliminate 90 degree angles.

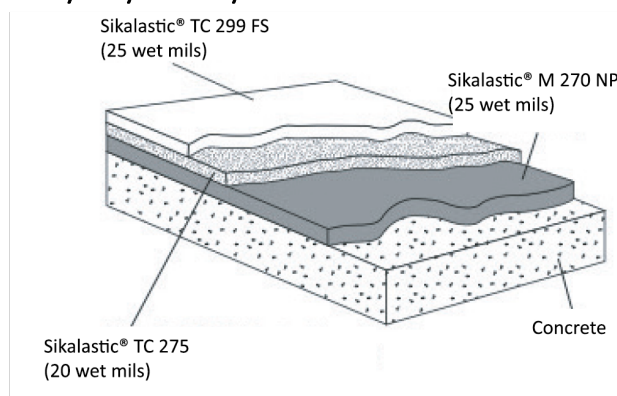
MIXING

Refer to the specific PDS for Mixing instructions.

For Sikalastic® TC 299 FS MMA, Sikalastic® 918 FS is required to cure, refer to the PDS for Mixing and dosage instructions.

APPLICATION

Heavy-Duty Traffic System



Base Coat: Apply Sikalastic® M 270 NP with proper notched squeegee at a rate of approx. 1.47 m²/L (60 ft²/US gal) or 0.64 mm (25 mil) w.f.t. Allow base coat to cure 3-4 hours.

Top Coat: Apply Sikalastic® TC 275 intermediate top coat using a properly notched squeegee at a rate of approx. 1.47 m²/L (80 ft²/US gal) or 0.50 mm (20 mil w.f.t.). Immediately back roll to evenly level the top coat.

Aggregate Broadcast (to refusal method): Immediately broadcast oven-dried aggregate 16-30 mesh, rounded quartz sand into the wet coating at a rate of 1.0–1.5 kg/m² (20–30 lb/100 ft²). Immediately after the aggregate is broadcast and while the coating is still wet, blow any excess aggregate via a portable blower forward into the wet coating. Do not overlap aggregate: it is acceptable to have localized wet spots in the aggregate surface after completion of this application 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.

Allow to cure 4-6 hours or until there is no moisture on the surface of the aggregate/membrane. Remove all excess or loose aggregate by sweeping or vacuuming before application of the top coat. Apply the Sikalastic® TC 299 FS immediately after mixing by pouring directly onto the primed and cured deck surface. Distribute by means of heavy nap, solvent-grade roller, brush or squeegee to the desired thickness, at the rate of 1.47 m²/L (60 ft²/US gal) or 0.64 mm (25 mil) w.f.t.

Note: Top coat will cure in one (1) hour. Wait three (3) hours before opening to traffic. Existing environmental conditions affect the allowable time period.

Important note: All coverage rates provided are approximate and may vary due to the application technique used. Coverage rates are affected by substrate texture, selection 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 applied to achieve the required slip resistance.

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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 tools with Sikafloor 100 CLN Pronto, an MMA solvent. Other solvents such as Xylene or acetone may also be used. Collect and dispose of all site waste.

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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System Data Sheet

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