

PRODUCT DATA SHEET

Sikalastic® TC 235

(formerly MSeal TC 235)

ALIPHATIC POLYURETHANE TOP COAT FOR SIKALASTIC TRAFFIC 1500 LOW VOC DECK COATING SYSTEMS

PRODUCT DESCRIPTION

Sikalastic® TC 235 is a low VOC, moisture-curing polyurethane top coat for use in Sikalastic® Traffic 1500 Low VOC deck coating systems. The Sikalastic® TC 235 is a one-component waterproofing coating and is UV-resistant. The Sikalastic® TC 235 Tint Base product allows for a variety of colors in pedestrian applications.

USES

- Stadiums
- Balconies
- Parking Garages
- Commercial Construction
- Building and Restoration
- Plywood Decks/Balconies
- Plaza Decks

CHARACTERISTICS / ADVANTAGES

- Sikalastic® TC 235 has low VOCs
- UV-resistant, one-component waterproofing coating
- Easy preparation reduces on-site labor costs
- 40 standard colors utilizing Sikaflex®-900 color packs (pedestrian use only) available with Sikalastic® TC 235 Tint Base

PRODUCT INFORMATION

Chemical Base	Single component, aliphatic polyurethane top coat
Packaging	5 gallons (18.93 L) in 5-gallon pail
Color	Grey, Charcoal, Tan, Dark Tan, Tint Base
Shelf Life	1 year in original, unopened containers.
Storage Conditions	Store dry at 40–95 °F (4–35 °C). Condition material to 65–85 °F (18–30 °C) before using
Volatile organic compound (VOC) content	See Product Safety Data Sheet
Viscosity	2,000-8,000 cps*

*Cold temperatures will increase viscosity.

Solid content by volume	82%
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TECHNICAL INFORMATION

Shore Hardness	89	(ASTM D 2240)
Tensile Strength	2,710 psi (18.7 MPa)	(ASTM D 412)
Elongation at Break	Elongation 555%	(ASTM D 412)

APPLICATION INFORMATION

Coverage	See the Sikalastic® Traffic 1500 system data sheet for the total system yield. 55 - 60 ft ² /gal. at 25 mils 75 - 80 ft ² /gal. at 20 mils
Cure Time	12–14 hours at 73 °F (23 °C) and 50% R.H
Test Results	Vehicular Traffic: 72 hours Pedestrian Traffic: 48 hours

SYSTEM INFORMATION

Compatibility	<ul style="list-style-type: none">▪ Sikalastic® Vehicular 1500 Low VOC▪ Sikalastic® Pedestrian 1500 Low VOC
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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

- Avoid dew point conditions during application, relative humidity must be no more than 95 % and substrate temperature must be at least 5 °F (3 °C) above measured dew point temperatures.
- Minimum ambient and substrate temperature during application and curing of material is 40 °F (4 °C); maximum is 95 °F (35 °C).
- Do not store materials outdoors exposed to sunlight for prolonged periods.
- Do not thin with solvents.
- Use properly graded, oven dried aggregates only.
- Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various Sika product solutions). Surface irregularities may reflect through the cured system.
- Do not apply to a porous or damp surface where moisture vapor transmission will occur during application and cure.
- Substrate must be dry prior to application. Do not apply to a frosted, wet or damp surface. Do not proceed if rain is imminent within 8–12 hours of application. Allow sufficient time for the substrate to dry after rain or inclement weather as there is the potential for bonding problems.
- When applying over existing coatings compatibility and adhesion testing is recommended.
- Opening to traffic or installation of separate wearing course prior to final cure may result in loss of aggregate, or permanent staining and subsequent premature failure.
- Vehicle fluids and some high performance tires can stain the coating. Fluid spills should be removed promptly as the coating can in some cases be damaged from prolonged exposure.
- On grade, lightweight concrete, asphalt pavement, or insulated split slab applications, or applications where chained or studded tires may be used, must not be coated with Sikalastic Traffic Systems without Sika technical review. Contact Sika Technical Services or Product Engineering.
- Unvented metal pan decks or decks containing between-slab membranes require further technical evaluation and priming with a moisture-blocking primer - contact Sika regarding recommendations.
- Waterproofing applications under overburden, including concrete pavement, asphalt pavement, and tile in a cementitious setting bed, require further technical evaluation - contact Sika regarding recommendations.
- Do not subject to continuous immersion. Ponding water up to 72 hours is not considered as continuous immersion.

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BUILDING TRUST



- Base coat must be kept clean and re-coated within 24 hours for two-component base coat, and 48 hours for single component base coat. If this window is exceeded, contact Sika for recommendations.
- Mockups to verify application methods and substrate conditions as well as desired skid resistance and aesthetics are highly recommended.
- Cracks or ruptures which develop in the structure after the waterproofing traffic system was installed will not be bridged by the waterproofing traffic system and need to be repaired according to the recommended standard crack treatment details per this PDS

LIMITATIONS: Sikalastic® TC 235 Tint Base

- Sikalastic® TC 235 Tint Base is intended for pedestrian use only and is not suitable for vehicular traffic.
- 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 235 Tint Base heavier than the recommended 25 mil (0.64 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

Please see preferred Sikalastic® Deck Coating Solution for detail surfacer preparation.

MIXING

- Thoroughly mix coating using a mechanical mixer (Jiffy) at slow speed until a homogenous mixture and uniform color is obtained (typically 1 minute). Use care not to allow the entrapment of air into the mixture.

MIXING: Sikalastic® TC 235 Tint Base

- Transfer entire contents of pigment cans into Sikalastic® TC 235 Tint Base. Use a spatula or knife to remove all the pigment from the container.
- With a slow-speed drill and Jiffy mixer, mix 4–6 minutes. The paddle blade must be kept below the surface of the Tint-Base to avoid whipping air into it.
- To ensure consistent color throughout the pail, pour

contents into separate container and continue mixing until all Tint-Base has dispersed.

- When using multiple units, all units must be boxed to ensure color consistency.

Note: Sikalastic® TC 235 Tint Base is intended for pedestrian use only and is not suitable for vehicular traffic.

Sikalastic® TC 235 Tint base should be mixed with two (2) Sikaflex®-900 color packs per 5 gallons in order to achieve the desired color tint.

APPLICATION

Apply at the recommended coverage rate using a notched squeegee or trowel, and backroll using a phenolic resin core roller. Apply aggregate evenly distributed at the appropriate rate immediately into wet coating and backroll if required. Allow coating to cure a minimum of 12-14 hours at 73 °F and 50 % RH. Allow coating to cure for a minimum of 72 hours before opening to vehicular or 48 hours before opening to pedestrian traffic.

Please see the applicable Sikalastic® Deck Coating system data sheet for total system and aggregate surface preparation and application.

When installing Sikalastic® TC 235 Tint Base, a second coat may be required for proper hiding. A mock up should be performed to address any aesthetic expectations.

Removal

Remove liquid coating immediately with dry cloth. Once cured, coating can only be removed by mechanical means.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates (“SIKA”), the user must always read and follow the warnings and instructions on the product’s most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA’s Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of

installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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