



## PRODUCT DATA SHEET

# Sikalastic® TC 297 FS

(formerly MSeal TC 297FS)

Solvent-free, two-component, 100 % reactive methyl methacrylate (MMA) intermediate coat

### PRODUCT DESCRIPTION

Sikalastic® TC 297 FS is a solvent-free, two-component, 100 % reactive methyl methacrylate (MMA) intermediate coat.

### WHERE TO USE

- Stadiums
- Parking garages
- Plaza decks
- Loading docks
- Garbage rooms
- Commercial construction
- New construction and restoration

### TECHNICAL INFORMATION

Shore A Hardness	61	(ASTM D2250)
Tensile Strength	9.31 MPa (1350 psi)	(ASTM D412)
	<b>Elongation</b>	
	140 %	(ASTM D412)
Crack Bridging Ability	Pass	(ASTM C957)
Adhesion in Peel	<b>System Adhesion</b>	
	> 3.45 MPa (500 psi)	(ASTM D4541)

### PRODUCT INFORMATION

CSC MasterFormat®	07 18 00   TRAFFIC COATINGS
Composition / Manufacturing	Methyl methacrylate (MMA) technology

### CHARACTERISTICS / ADVANTAGES

- Rapid cure allows for quick installation with minimal facility downtime
- Low-temperature cure extends application season
- Seamless, impervious coating that is easy to clean and maintain
- Flexible system that withstands temperature swings

### APPROVALS / CERTIFICATES

- CSA S413
- ASTM C957

<b>Packaging</b>	<ul style="list-style-type: none"> <li>▪ 17 L (4.5 US gal.) pail</li> <li>▪ 202.5 L (53.5 US gal.) drum</li> </ul>
<b>Shelf Life</b>	2 years
<b>Storage Conditions</b>	Store in unopened containers in a cool, clean, dry area
<b>Appearance / Colour</b>	
<b>Solid content by weight</b>	100 % (ASTM D1259)

## SYSTEMS

<b>Systems</b>	Sikalastic® Vehicular Traffic 2900
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## APPLICATION INFORMATION

<b>Yield</b>	Approx. 1.96 m <sup>2</sup> /L (80 ft <sup>2</sup> /US gal.) at 20 mil w.f.t
<b>Layer Thickness</b>	20 mil w.f.t
<b>Ambient Air Temperature</b>	Between -1 °C and +32 °C (30 °F and 90 °F)
<b>Dew Point</b>	Substrate temperature must be at least 3 °C (5.5 °F) above measured dew point temperature.
<b>Substrate Temperature</b>	Between -1 °C and +32 °C (30 °F and 90 °F)

## 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® 2900 System is a multiple-component system that utilizes a methyl-methacrylate (MMA) resin. It is critical that the instructions listed 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 the product. Explosion-safe ventilation must be used during the application to minimize vapour collection in the installation area and to improve overall air quality for the crew. All foodstuffs must be removed during installation of the system.

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.

- If a vapor drive is present or suspected, please consult with your local Sika Technical Sales Representative prior to system application.
- Not for use in areas exposed to strong solvents

- (contact Sika Canada Technical Service).
- Protect or remove food items prior to application to avoid any possible contamination.
- Proper airflow is critical to curing MMA materials. The use of fans is mandatory where airflow is restricted.
- The minimum application temperature is -1 °C (30 °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 Sikalastic® Vehicular Traffic 2900 to concrete slabs on grade, unvented metal pan decks, or split slab applications with a waterproofing membrane between slabs. Contact Sika Canada Technical Service.
- 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 the desired slip resistance.
- Contact Sika Canada Technical Service when substrate temperatures are over +32 °C (90 °F) or below -1 °C (30 °F) 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.
- 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 coating details are available for download from our website, contact Sika Canada for guidance
- On steep ramps in excess of 15 %, contact your local Sika Technical Sales Representative. Do not use self-leveling grade products on slopes greater than 15 %.
- Do not coat over expansion joints.

## 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

### MIXING

#### Colour

Sikalastic® TC 297 FS: Mix 3 oz of Sikafloor® PGM 155 pigment for every one (1) gallon of resin

#### Mixing

Sikalastic® TC 297 FS: Measure 1 gallon of resin and 3 oz of PGM 155 pigment into a 5-gallon pail. Mix for 2–3 minutes. Add the proper amount of powder hardener and mix for an additional 1–2 minutes. See the mixing chart below.

### Required amount of Sikalastic®-918 FS (in volume ounces) for one-gallon resin, based on temperature

°C (°F)	Sikalastic® TC 297 FS
°-1 (°30)	11
°1 (°33)	11
°2 (°35)	11
°4 (°40)	11
°7 (°45)	9
°10 (°50)	8.5
°13 (°55)	7.5
°16 (°60)	6.5
°18 (°65)	5.5
°21 (°70)	4.5
°24 (°76)	4
°27 (°80)	3
°29 (°85)	2.5
°32 (°90)	2

### Required amount of Sikalastic®-918 FS (in grams) for one-litre resin, based on temperature

°C (°F)	Sikalastic® TC 297 FS
°-1 (°30)	106
°1 (°33)	106
°2 (°35)	106
°4 (°40)	106
°7 (°45)	87
°10 (°50)	82
°13 (°55)	72
°16 (°60)	63
°18 (°65)	53
°21 (°70)	43
°24 (°76)	39
°27 (°80)	29
°29 (°85)	24
°32 (°90)	19

**Note:** After mixing, apply immediately. You will have 7–15 minutes of working time, dependent on temperature.

### APPLICATION

#### Heavy-duty Traffic System

Apply the properly mixed Sikalastic® TC 297 FS at 1.96 m<sup>2</sup>/L (80 ft<sup>2</sup>/US gal), rolling on at a 20 mil thickness. Immediately broadcast 16–30 mesh, rounded quartz sand into the wet coating to refusal at the rate of 1.0–1.5 kg/m<sup>2</sup> (20–30 lb per 100 ft<sup>2</sup>). Immediately after the aggregate is broadcast and while the coating is still wet, blow any excess aggregate using a portable blower forward into the wet coating.

#### Extra Heavy-duty Traffic System

Apply the properly mixed Sikalastic® TC 297 FS at 0.98 m<sup>2</sup>/L (40 ft<sup>2</sup>/US gal), rolling on at a 40 mil thickness. Immediately broadcast 16–30 mesh, rounded quartz sand into the wet coating to refusal at the rate of 1.0–1.5 kg/m<sup>2</sup> (20–30 lb per 100 ft<sup>2</sup>). After the aggregate is broadcast and while the coating is still wet, blow any excess aggregate using a portable blower forward into the wet coating.

#### Mock-up

Provide mock-up of at least 9.3 m<sup>2</sup> (100 ft<sup>2</sup>) to include surface profile, sealant joint, crack, flashing, and juncture details and allow for evaluation of slip resistance and appearance. Install mock-up with specified coating types and with other components noted and locate where directed by architect. Mockup may remain as part of the work if acceptable to the architect.

### CURING TREATMENT

All components of the Sikalastic® Traffic 2900 system fully cure within one hour when properly installed. Extend the curing time in cool-weather conditions.

## 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

See Sikalastic® Traffic maintenance technical bulletin. Regular cleaning and maintenance will prolong the life of all polymer flooring 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](http://www.sika.ca)

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### Other locations

Boisbriand (Quebec)  
Brantford; Cambridge;  
Sudbury; Toronto (Ontario)  
Edmonton (Alberta)  
Surrey (British Columbia)

### Product Data Sheet

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