



PRODUCT DATA SHEET

Sikalastic® TC 299 FS

(formerly MSeal TC 299FS)

MMA, solvent-free, two-component, 100 % reactive pigmentable top coat

PRODUCT DESCRIPTION

Sikalastic® TC 299 FS is an MMA, solvent-free, two-component, 100 % reactive pigmentable top coat

WHERE TO USE

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

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

PRODUCT INFORMATION

Packaging	17 L (4.5 US gal) pail; 189 L (50 US gal) drum
Colour	For colour options, refer to <i>Sikalastic® Fast Cure Color</i> Brochure
Shelf Life	2 years
Storage Conditions	Store in unopened containers in a cool, clean, dry area.
Solid content by weight	100 % (ASTM D1259)
CSC MasterFormat®	07 18 00 TRAFFIC COATINGS

TECHNICAL INFORMATION

Shore A Hardness	89 (ASTM D2250)
Abrasion Resistance	Taber Abrasion Resistance 179 mg (ASTM D4060)

Tensile Strength	7.24 MPa (1050 psi)	(ASTM D412)
	Elongation 34 %	(ASTM D412)
Electrical Resistivity	Volume: 10 ¹⁴ ohm/cm	(ASTM D257)
Water Absorption	0.04 % over 24 hours	(ASTM D570)

SYSTEMS

Systems	Sikalastic® Vehicular Traffic 2900
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APPLICATION INFORMATION

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

Sikalastic® TC 299 FS may only be used by experienced professionals. 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.

- MMA resins are flammable liquids in their uncured state therefore 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.
- If a vapour drive is present or suspected, consult with your local Sika Canada Technical Sales Representative prior to system application.
- Not for use in areas exposed to strong solvents

(consult 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 Technical Services.
- 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 substrates temperatures are over 32 °C (90 °F) or under -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, Sika Customer Support can direct you to the site.
- On steep ramps in excess of 15 %, contact your local Sika 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 299 FS: Mix 6 oz of Sikafloor® PGM 155 pigment for every 3.78 L (1 US gal) of resin

Mixing

- Sikalastic® TC 299 FS: Measure 3.78 L (1 US gal.) of resin and 6 oz of pigment into a 22.7 L (5 US gal) pail. Mix for 2-3 minutes. Add the proper amount of powder hardener and mix for an additional 1-2 minutes. Refer to the mixing chart below.

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

°C (°F)	Sikalastic® TC 299 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 of resin, based on temperature:

°C (°F)	Sikalastic® TC 299 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: Apply the material immediately after mixing. You will have 7 – 15 minutes of working time, depending on temperature.

APPLICATION

Heavy-duty Traffic System

1. Apply the properly mixed Sikalastic® TC 299 FS at 1.96 m²/L (80 ft²/US gal), rolling on at a 20 mil thickness using a squeegee.
2. All components of the Sikalastic® Traffic 2900 system fully cure in approximately one (1) hour when properly installed.

Extra Heavy-duty Traffic System

1. Apply the properly mixed Sikalastic® TC 299 FS at 1.96 m²/L (80 ft²/US gal), rolling on at a 20 mil thickness using a squeegee.
2. Immediately broadcast 16–30 mesh, rounded quartz sand into the wet coating to refusal at the rate of 1.0–1.5 kg/m² (20–30 lb per 100 ft²). 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.
3. Apply the properly mixed Sikalastic® TC 299 FS at 1.96 m²/L (80 ft²/US gal), rolling on at a 20 mil thickness using a squeegee.
4. All components of the Sikalastic® Traffic 2900 system fully cure in approximately one (1) hour when properly installed.

Mock-up

1. Provide a mock-up of at least 9.3 m²/L (100 ft² /US gal) to include surface profile, sealant joint, crack, flashing, and juncture details and allow for evaluation of slip resistance and appearance.
2. Execute the mock-up with specified coating types and with other components noted.
3. Locate where directed by architect.
4. Mock-up 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 (1) hour when properly installed. The curing time will be extended 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 properly 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

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SikalasticTC299FS-en-CA-(11-2024)-3-1.pdf

Product Data Sheet

Sikalastic® TC 299 FS
November 2024, Version 03.01
02081300000002027

