



PRODUCT DATA SHEET

Sikalastic® TC 299 FS

(formerly MSeal TC 299FS)

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

PRODUCT DESCRIPTION

Sikalastic® TC 299 FS is an MMA solvent-free, two-component, 100 % reactive top coat, available in clear or pigmented version.

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 extending 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	Clear or pigmented (refer to Sikalastic® Fast Cure Colour Brochure)
Shelf Life	24 months
Storage Conditions	Store in unopened containers in a cool, clean, and dry area protected from heat, direct sunlight, moisture and impact.
Solid content by weight	100 % (ASTM D1259)

TECHNICAL INFORMATION

Shore A Hardness	61 (ASTM D2250)
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Abrasion Resistance	Taber Abrasion Resistance 179 mg	(ASTM D4060)
Tensile Strength	9.31 MPa (1350 psi)	(ASTM D412)
Elongation	130 %	

Mixing Ratio Sikalastic® 918 FS is the catalyst for Sikalastic® TC 299 FS at all temperatures. The charts below details amount of Sikalastic® 918 FS required to be added to Sikalastic® TC 299 FS resin, based on temperatures.

Temperature in °C (°F) for 3.78 L (1 US gal) Sikalastic® 918 FS in vol. oz

-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 (75)	4
27 (80)	3
29 (85)	2.5
32 (90)	2

Temperature in °C (°F) for 1 L (0.26 US gal) Sikalastic® 918 FS in grams

-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 (75)	39
27 (80)	29
29 (85)	24
32 (90)	19

Yield

- 1.96 m²/L (80 ft²/US gal) at 20 mil
- 1.47 m²/L (60 ft²/US gal) at 25 mil

Note: Coverage rates provided are optimal and are not guaranteed. Coverage rates will vary depending on temperature, surface roughness and porosity, aggregate selection and embedment, and application technique

Pot Life 7 - 15 minutes (based on temperatures)

Curing Time 1 hour



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® TC 299 FS 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 are not 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. Systems based on reactive acrylic resins exhibit a characteristic odour during application and prior to achieving full cure, once fully cured they are taint-free. Do not apply in presence of foodstuffs. Any foodstuffs (packaged or not) should be completely isolated from the flooring works during the application process and until the products are fully cured.

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.

- If a vapour drive is present or suspected, contact your Sika Canada Representative prior to installation.
- Not for use in areas exposed to strong solvents (contact Sika Canada Technical Service).
- 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).
- Beware of condensation! The substrate must be at least 3 °C (5 °F) above dew point to reduce the risk of condensation or blooming on the surface finish.
- Do not apply on to outgassing concrete.
- Warm temperatures will shorten working time; plan work accordingly.
- Do not store Sikalastic® TC 299 FS near open flame or an ignition source.
- 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 & 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.
- When substrates temperatures exceed 32 °C (90 °F) or are below -1 °C (30 °F) or when applying to decks containing between slab membranes, contact Sika Canada Technical Service for guidance.
- 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 at www.sika.ca
- On steep ramps in excess of 15 %, contact your Sika Canada Technical Representative. Do not use self-levelling 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

Colouring Sikalastic® TC 299 FS

Measure 3.78 L (1 US gal) of resin and 170 g (6 oz) of pigment and add into a 18.9 L (5 US gal) mixing pail. Mix for two (2) to three (3) minutes. Add the proper amount of powder hardener and mix for one (1) to two (2) additional minutes. Refer to the mixing chart below.

Note: Sikalastic® TC 299 FS has a 7 - 15 minutes working time (depending on temperatures) and must be applied immediately after mixing.

APPLICATION

Apply at the recommended coverage rate (refer to appropriate System Product Data Sheet) using a notched or flat squeegee, and immediately backroll using a phenolic resin core roller.

Allow coating to cure a minimum of one (1) hour between coats before opening to traffic.

CLEAN UP

Clean tools with an MMA solvent. Other solvents such as xylene or acetone may also be used.

MAINTENANCE

Refer to 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.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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Product Data Sheet

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