BUILDING TRUST

PRODUCT DATA SHEET

Sikalastic® TC 299 FS

(formerly MSeal TC 299FS)

SIKALASTIC® TC 299 FS IS AN MMA SOLVENT-FREE, TWO-COMPONENT, 100% REACTIVE TOP COAT, AVAILABLE ON PIGMENTABLE AND CLEAR VERSION

PRODUCT DESCRIPTION

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

USES

- 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 / STANDARDS

- CSA S413
- ASTM C957

PRODUCT INFORMATION

Packaging	4.5-Gal (17L) pail; 50-Gal (189L) drum	
Color	For color options, see Sikalastic® Fast Cure Color Brochure	
Shelf Life	2 years	
Storage Conditions	Store in unopened containers in a cool, clean, dry area. Materials should be protected from heat, direct sunlight, moisture and impact.	
Solid content by mass	100%	(ASTM D 1259)

TECHNICAL INFORMATION

Shore Hardness	61	(ASTM D 2250, Shore A)
Abrasion Resistance	179 mg	(ASTM D 4060, Taber Abraser)

Tensile Strength	1350 psi (9.31 MPa)	(ASTM D 412)
Elongation	130%	(ASTM D 412)

APPLICATION INFORMATION

Mixing Ratio

Sikalastic® 918 FS is the catalyst for Sikalastic® TC 299 FS at all temperatures. Chart details amount of Sikalastic® 918 FS required, based on temperature, added to one (1) gallon of Sikalastic® TC 299 FS resin.

°F (°C)	Sikalastic® 918 FS (fl. oz.)
°30 (°-1)	11
°33 (°1)	11
°35 (°2)	11
°40 (°4)	11
°45 (°7)	9
°50 (°10)	8.5
°55 (°13)	7.5
°60 (°16)	6.5
°65 (°18)	5.5
°70 (°21)	4.5
°75 (°24)	4
°80 (°27)	3
°85 (°29)	2.5
°90 (°32)	2

* For temperatures not listed on this dosing chart, please contact your Sika representative.

Coverage

80 ft²/gal. at 20 mils
60 ft²/gal. at 25 mils

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 min, based on temperature.

Cure Time

1 hour

SYSTEM INFORMATION

Systems

Sikalastic® Vehicular Traffic 2900 & 2850 Systems

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

- If a vapor drive is present or suspected, please consult with your local Sika representative prior to system application.
- Not for use in areas exposed to strong solvents (consult Sika 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.
- 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. All unpackaged goods should be removed from the area of the works during application.
- Do not apply in the 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 minimum application temperature is 30 °F (-1 °C).
- Do not apply to concrete that is outgassing.
- Warm temperatures will shorten working time; plan work accordingly.

- Do not store near open flame or an ignition source.
- Concrete should have a minimum compressive strength of 3,000 psi (21 MPa) 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 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 Technical Service when substrates are over 90 °F (32 °C) or under 30 °F (-1 °C) or when applying to decks containing between slab membranes.
- Beware of condensation! The substrate must be at least 5 ˚F (3 °C) above dew point to reduce the risk of condensation or blooming on the surface finish.
- 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.
- 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.
- 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.

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

Sikalastic® TC 299 FS is a multiple-component 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 vapor collection in the installation area and to improve overall air quality for the crew. All foodstuffs must be removed during installation of the system.

MIXING

Color

- Sikalastic® TC 299 FS pigmented as top coat: Mix 6 oz of Sikafloor® PGM 155 pigment for every one (1) gallon of resin
- Sikalastic® TC 299 FS pigmented as wear coat: Mix 3 oz of Sikafloor® PGM 155 pigment for every one (1) gallon of resin

Mixing

- Sikalastic® TC 299 FS pigmented measure 1 gallon of resin and 6 oz of 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 ratio chart above.
- Note: After mixing, apply immediately. You will have 7 – 15 minutes of working time, dependent on temperature.

See Mixing Ratio section for the required amount of Sikalastic®-918 FS (in volume ounces) for one-gallon resin, based on temperature at the time of application.

APPLICATION

Apply at the recommended coverage rate (see 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 1 hour between coats or opening to traffic.

CLEANING OF TOOLS

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 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.

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