BUILDING TRUST
CONSTRUIRE LA CONFIANCE

PRODUCT DATA SHEET

Sikalastic® M 290 FS

(formerly MSeal M 290FS)

SIKALASTIC® M 290 FS IS A POLYURETHANE-MODIFIED METHYL METHACRYLATE (PMMA) WATER-PROOFING BASE COAT

PRODUCT DESCRIPTION

Sikalastic® M 290 FS is a polyurethane-modified methyl methacrylate (PMMA) waterproofing base 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

CSC MasterFormat®	**07 18 00 | TRAFFIC COATINGS**	
Packaging	17 L (4.5 US gal.) pail	
Shelf Life	1 year	
Storage Conditions	Store in unopened containers in a cool, clean, dry area	
Colour	Comes pre-tinted grey	
Solid content by weight	100%	(ASTM D 1259)

TECHNICAL INFORMATION

Shore A Hardness	70	(ASTM D 2250)
Tensile Strength	11 MPa (1600 psi)	(ASTM D 412)

	Elongation 1324%	(ASTM D 412)
Crack Bridging Ability	Pass	(ASTM C 1305)

SYSTEMS

Systems	Sikalastic® Vehicular Traffic 2900

APPLICATION INFORMATION

Yield	approx. 0.79 m^2/L (32 ft^2/US gal.) at 50 mils w.f.t
Layer Thickness	50 mils 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.

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

- 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).
- 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.
- New Concrete should have a minimum compressive strength of 21 MPa (3,000 psi) and be cured for a minimum of 28 days.
- Be sure to allow for movement in the deck by the proper design and use of expansion and control joints.
- Contact Technical Service when substrates 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.
- 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.
- 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.

SURFACE PREPARATION

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

MIXING

- Pre-Mix Sikalastic® M 290 FS until uniform (1-2 minutes). Measure the required volume of resin and add the proper amount of powder hardener Sikalastic®-918 FS. See mixing chart below. Mix with drill mixer for 3 minutes.

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

°C (°F)	Sikalastic®-918 FS (vol oz)
°-1 (°30)	8
°1 (°33)	8
°2 (°35)	7.5
°4 (°40)	7
°7 (°45)	6.5
°10 (°50)	6
°13 (°55)	6
°16 (°60)	5
°18 (°65)	5
°21 (°70)	4.5
°24 (°76)	4.5
°27 (°80)	4.5
°29 (°85)	4.5
°32 (°90)	4.5

Mixing Chart required amount of Sikalastic®-918 FS (in grams) for one-liter resin, based on temperature:

°C (°F)	Sikalastic®-918 FS (grams)
°-1 (°30)	77
°1 (°33)	77
°2 (°35)	72
°4 (°40)	67
°7 (°45)	63
°10 (°50)	58
°13 (°55)	58
°16 (°60)	48
°18 (°65)	48
°21 (°70)	43
°24 (°76)	43
°27 (°80)	43
°29 (°85)	43
°32 (°90)	43

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

APPLICATION

Apply Sikalastic® M 290 FS at 50 mils w.f.t using a notched tool (or trowel). Material may not be completely tack free upon cure. Backroll the Sikalastic® M 290 FS only if necessary, to aid in leveling. If performed, backroll must be done immediately. Please see the applicable Sikalastic®Deck Coating system data sheet for total system and aggregate surface preparation and application.

Sika Canada Inc.
Head Office
601, avenue Delmar
Pointe-Claire, Quebec
H9R 4A9
1-800-933-SIKA
www.sika.ca

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

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

CLEANING

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