

## PRODUCT DATA SHEET

# Sikalastic® M 290 FS

(formerly MSeal M 290FS)

A POLYURETHANE-MODIFIED METHYL METHACRYLATE (PMMA) WATERPROOFING BASE COAT

### PRODUCT DESCRIPTION

Sikalastic® M 290 FS is a polyurethane-modified methyl methacrylate (PMMA) waterproofing base coat. For use in the the Sikalastic® Traffic 2900 system.

### USES

- Stadiums
- Parking Garages
- Plaza Decks
- Loading Docks
- Garbage Rooms
- Commercial Construction
- Building and Restoration

### PRODUCT INFORMATION

<b>Chemical Base</b>	Polyurethane-Modified Methyl Methacrylate	
<b>Packaging</b>	4.5-Gal (17L) pail	
<b>Color</b>	pre-tinted grey	
<b>Shelf Life</b>	1 year	
<b>Storage Conditions</b>	Store properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between 41°F and 86 °F (5°C and 30 °C). Materials must be protected from heat, direct sunlight, moisture and impact. The materials should be stored between 65°F to 75 °F (18°C to 24 °C) for 24 hours prior to use for optimum handling properties. Do not store near open flame or an ignition source	
<b>Solid content by mass</b>	100%	(ASTM D 1259)

### 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

## TECHNICAL INFORMATION

Shore D Hardness	70	(ASTM D 2250)
Tensile Strength	1600 psi (11 MPa)	(ASTM D 412)
Elongation	1324%	(ASTM D 412)
Crack Bridging Ability	Pass	(ASTM C 1305)

## SYSTEM INFORMATION

Systems	Sikalastic® Vehicular Traffic 2900
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## APPLICATION INFORMATION

Mixing Ratio	Mixing Chart shows required amount of Sikalastic®-918 FS (in volume ounces) for one-gallon resin, based on temperature.																														
	<table><thead><tr><th>°F (°C)</th><th>Sikalastic®-918 FS (fl. oz)</th></tr></thead><tbody><tr><td>°30 (°-1)</td><td>8</td></tr><tr><td>°33 (°1)</td><td>8</td></tr><tr><td>°35 (°2)</td><td>7.5</td></tr><tr><td>°40 (°4)</td><td>7</td></tr><tr><td>°45 (°7)</td><td>6.5</td></tr><tr><td>°50 (°10)</td><td>6</td></tr><tr><td>°55 (°13)</td><td>6</td></tr><tr><td>°60 (°16)</td><td>5</td></tr><tr><td>°65 (°18)</td><td>5</td></tr><tr><td>°70 (°21)</td><td>4.5</td></tr><tr><td>°76 (°24)</td><td>4.5</td></tr><tr><td>°80 (°27)</td><td>4.5</td></tr><tr><td>°85 (°29)</td><td>4.5</td></tr><tr><td>°90 (°32)</td><td>4.5</td></tr></tbody></table>	°F (°C)	Sikalastic®-918 FS (fl. oz)	°30 (°-1)	8	°33 (°1)	8	°35 (°2)	7.5	°40 (°4)	7	°45 (°7)	6.5	°50 (°10)	6	°55 (°13)	6	°60 (°16)	5	°65 (°18)	5	°70 (°21)	4.5	°76 (°24)	4.5	°80 (°27)	4.5	°85 (°29)	4.5	°90 (°32)	4.5
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Coverage	32 sf/gal at 50 mils 20 sf/gal at 80 mils																														
Pot Life	7-15 min, dependent on temperature																														
Cure Time	1-1.5 hours, dependent on temperature																														

## 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).
- Proper airflow is critical to curing MMA materials. The use of fans is mandatory where airflow is restricted.
- The minimum application temperature is 30 °F (-1 °C).
- To avoid dew point conditions during application relative humidity must be no more than 95 % and substrate temperature must be at least 5 °F (3 °C) above measured dew point temperature.
- 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 3,000 psi (21 MPa) 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 90 °F (32 °C) or under 30 °F (-1 °C) 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 subject to ponding water or continuous immersion.
- Do not store materials outdoors directly exposed to sunlight and moisture. Cover and protect materials with breathable type covers such as canvas tarpaulins to allow venting and protection from weather and moisture. Observe temperature storage and conditioning requirements.
- Do not apply to damp, wet, or contaminated surfaces.
- Not suitable for use where chained or metal-studded tires will be used.
- Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various product solutions). Surface irregularities may reflect through the cured system and should be mitigated.
- 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.
- Mockups to verify application methods and substrate conditions as well as desired skid resistance and aesthetics are highly recommended.

## 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

### 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 1 gallon of resin and add the proper amount of powder hardener Sikalastic®-918 FS. See mixing chart below. Mix with drill mixer for 3 minutes.

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

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

### APPLICATION

Sikalastic® M 290 FS requires Sikalastic® P 280FS/908FS or P 281FS/908FS resin as a primer for all applications. Apply Sikalastic® M 290 FS 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.

### 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.

### 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

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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

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