



## PRODUCT DATA SHEET

# Sikalastic® M 205

(formerly MSeal M 205)

POLYURETHANE BASE COAT FOR SIKALASTIC® TRAFFIC 1500 AND 2000 LOW VOC DECK COATING SYSTEMS

### PRODUCT DESCRIPTION

Sikalastic® M 205 is a low VOC one-component, moisture-curing polyurethane base coat for use in Sikalastic® Traffic 1500 and 2000 Low VOC deck coating systems.

### USES

- Stadiums
- Balconies
- Parking Garages
- Commercial Construction
- Building and Restoration
- Plywood Decks/Balconies
- Plaza Decks

### CHARACTERISTICS / ADVANTAGES

- Sikalastic® M 205 is VOC compliant
- Sikalastic® M 205 has strong adhesion properties
- Easy preparation reduces on-site labor costs

### PRODUCT INFORMATION

<b>Chemical Base</b>	Single-component, moisture-curing polyurethane base coat.
<b>Packaging</b>	5 gallon (18.93 L) pails
<b>Color</b>	Gray
<b>Shelf Life</b>	When properly stored, a 5-gallon Pail has a 1-year shelf life.
<b>Storage Conditions</b>	Store in unopened containers in a cool, clean, dry area
<b>Density</b>	1.25 kg/L
<b>Viscosity</b>	4,000–9,000 Cold temperatures will increase viscosity

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<b>Solid content by mass</b>	86 %	(ASTM D 1250)
<b>Solid content by volume</b>	83 %	(ASTM D 1250)
<b>Weight</b>	10.45 (4.74)	(ASTM D 1475) lbs (kg)

**TECHNICAL INFORMATION**

<b>Shore Hardness</b>	44	(ASTM D 2240), Shore A
<b>Tensile Strength</b>	350 psi (2.4 MPa)	(ASTM D 412)
<b>Elongation</b>	800%	(ASTM D 412)
<b>Crack Bridging Ability</b>	No Cracking	

**APPLICATION INFORMATION**

<b>Cure Time</b>	12–14 hours at 73 °F (23 °C) and 50% R.H.
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**SYSTEM INFORMATION**

<b>Systems</b>	<ul style="list-style-type: none"> <li>▪ Sikalastic® Vehicular 1500 Low VOC</li> <li>▪ Sikalastic® Vehicular 2000 Low VOC</li> <li>▪ Sikalastic® Pedestrian 1500 Low VOC</li> <li>▪ Sikalastic® Pedestrian 2000 Low VOC</li> </ul>
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**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**

- 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.
- Maximum moisture content of substrate when applied without primer: 4 % by weight measured via Tramex Moisture Meter. When moisture content is greater than 4 % up to 6 % by weight the use of Sikalastic® 100 VB primer may be required, contact Sika Technical Service regarding recommendations.
- Minimum ambient and substrate temperature during application and curing of material is 40 °F (4 °C); maximum is 95 °F (35 °C).
- 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 thin with solvents.
- Minimum age of concrete must be 21–28 days, depending on curing and drying conditions.
- 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

- Do not apply to a porous or damp surface where moisture vapor transmission will occur during application and cure.
- Substrate must be dry prior to application. Do not apply to a frosted, wet, or damp surface. Do not proceed if rain is imminent within 8–12 hours of application. Allow sufficient time for the substrate to dry after rain or inclement weather as there is the potential for bonding problems.
- When applying over existing coatings compatibility and adhesion testing is recommended.
- Precautions should be taken to prevent odors and/or vapors from entering the building/structure, including but not limited to turning off and sealing air intake vents or other means of ingress for odors and for vapors into the building/structure during product application and cure.
- On grade, lightweight concrete, asphalt pavement, and applications where chained or studded tires may be used should not be coated with Sikalastic® Traffic Systems.
- Unvented metal pan decks or decks containing a between-slab membrane require further technical evaluation and priming with a moisture-tolerant primer - contact Sika regarding recommendations.
- Waterproofing applications under overburden, including concrete pavement, and tile in a cementitious setting bed, require further technical evaluation - contact Sika regarding recommendations.

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- Do not subject to continuous immersion or ponding water.
- Sikalastic® M 205 is not UV stable and must be top coated or protected by a separate wearing course.
- If primer is used, the primer coat must be kept clean and recoated within open window time. If this window is exceeded, contact Sika for recommendations.
- Mockups to verify application methods and substrate conditions as well as desired skid resistance and aesthetics are highly recommended.
- Cracks or ruptures which develop in the structure after the waterproofing traffic system has been installed will not be bridged by the waterproofing traffic system and need to be repaired according to the recommended standard crack treatment details per this PDS.

## 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

#### Concrete

Concrete must be fully cured (28 days), structurally sound, clean and dry (ASTM D 4263). All concrete surfaces (new and old) must be shot blasted to remove previous coatings, laitance and all miscellaneous surface contamination and to provide profile for proper adhesion. Abrasive shot blasting must occur after concrete repair has taken place. Acid-etching is not permitted. Proper profile should be a minimum of ICRI CSP-3 (as described in ICRI document 03732.) For balconies and other pedestrian areas with limited space or access for shot-blasting, alternative mechanical methods can be used to achieve the recommended surface profile. Primer is not required on concrete substrates.

#### Plywood

All plywood must be smooth-faced, APA- stamped, exterior-grade, tongue and groove. Construction must conform to code, but plywood must not be less than 23/32" (20 mm) thick. Plywood spacing and deck construction must follow APA guidelines. Surfaces must be free of contaminants. Priming is not necessary on clean, dry plywood. All seams must be caulked with Sikaflex sealants. Pre-stripe 4–6" (102–152 mm) wide with 25 wet mils (0.64 mm) of M 200. Reinforce all seams between plywood sheets and between flashing and the plywood deck by embedding Sika Flexitape

Heavy Reinforcing Fabric into the pre-stripping.

#### Metal

Metal must be in sound condition. The surface should be free of all visible oil, grease, dust, dirt, mill scale, rust, coating, oxides, corrosion products and other foreign matter. Be aware of dew point and check it before every application on metal surface. Priming is required for all metal substrates.

- Ferrous Metals: Must be prepared to SSPC-SP6/NACE 3. For areas where SSPC-SP6/NACE 3 is prohibited or not feasible, substrate can be thoroughly cleaned by grinding or other power tools per SSPC-SP11.
- Non-Ferrous Metals: Prepare to a bright metal surface. Wire brushing can be used for soft metal such as copper or lead.
- Galvanized Steel: White rust must be removed from galvanized steel, with care taken not to damage or remove the galvanizing.
- Stainless Steel: Must be mechanically abraded or ground to create an appropriate anchor profile.

#### Existing Coatings

Should be cleaned and mechanically abraded to provide a contaminant-free, open-textured surface. Followed by a solvent wipe or mop as allowed by state and local regulations. After solvent flashes off proceed with approved primer and/or recoat procedure for existing coating.

#### PRIMING

Sikalastic® M 205 does not require primer on direct application to concrete with moisture content below 4% via Tramex and new plywood substrates, other substrates may require primer.

**Sikadur®-22 Lo-Mod FS** - For concrete with a maximum moisture content of 4 % by weight, plywood decks, and existing polyurethane coatings, apply a single coat application of Sikadur®-22 Lo-Mod FS with a flat squeegee or roller at approximately 10 mils at 160 sf/gal. Apply evenly without puddling. Allow primer to cure until tack-free, typically 2-4 hours (at 75°F (24°C) 50 % R. H). Sikadur®-22 Lo-Mod FS should be overcoated within 36 hours after tack-free. Refer to a separate product data sheet for additional information.

**Sikalastic® EP Primer/Sealer** - For Wood (timber, plywood) and Metal (aluminum, galvanized, cast iron, copper, lead, brass, stainless steel, steel, zinc). Apply by brush or phenolic resin core roller at the recommended rate, 100-250 sf/gal depending on the substrate. Correct amount of primer will saturate the substrate and leave a slight film on the substrate top surface. Apply evenly without puddling. Refer to separate primer data sheet for additional information.

**Sikalastic® Primer** - For concrete decks with a maximum moisture content of 4 % by weight, plywood decks, and existing polyurethane coatings, apply Sikalastic® Primer with a flat squeegee or phenolic resin core roller at approximately 250 - 300 sf/gal. and work well into the substrate to ensure adequate penetration and sealing, and puddles are avoided. Refer to separate primer data sheet for additional information.

**Sikalastic® 100 VB** - For concrete with a maximum

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moisture content of 5 % by weight, apply Sikalastic® 100 VB with a flat squeegee or roller at approximately 160 sf/gal. For concrete decks with a maximum moisture content of 6% by weight or applications, apply two applications of Sikalastic® 100VB with a flat squeegee or phenolic resin roller at approximately 160 sf/gal per application. Work primer well into the substrate to ensure adequate penetration and sealing and puddles are avoided. For applications as a moisture barrier and additional information refer to separate primer data sheet.

#### MIXING

Thoroughly mix coating using a mechanical mixer (Jiffy) at slow speed until a homogenous mixture and uniform color is obtained (typically 1 minute). Use care not to allow the entrapment of air into the mixture.

#### APPLICATION

Apply at the recommended coverage rate (see appropriate System Guide) using a notched squeegee or trowel, and backroll using a phenolic resin core roller. Extend base coat over entire area including previously detailed cracks and joints. Allow coating to cure a minimum of 16 hours at 70 °F and 50 % R.H before overcoating, extend curing time in cool or dry weather conditions.

#### CLEANING OF TOOLS

Remove liquid coating immediately with dry cloth. Once cured, coating can only be removed by mechanical means.

#### 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](https://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

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