

# PRODUCT DATA SHEET

## Sikalastic® MT Primer

### MOISTURE TOLERANT PRIMER

#### PRODUCT DESCRIPTION

A two component, high solids, red transparent epoxy primer. This epoxy primer is specially formulated to perform as a moisture tolerant primer.

#### USES

Sikalastic® MT Primer is designed as a primer for Sikalastic urethane traffic coatings when the moisture content of the deck is  $\geq 4\%$  and exceeds limitations of standard primer requirements (see Sikalastic® traffic coating system data sheets). Sikalastic® MT Primer is also intended as a primer for SikaLevel underlayments and patching products when the moisture content of the deck is  $\geq 4\%$ .

Use of Sikalastic® MT Primer is required where a moisture content between  $\geq 4\%$  and  $\leq 6\%$  mass (pbw – part by weight) is measured on a concrete substrate with Tramex® CME or CMExpert type concrete moisture meter. Also required for non-vented concrete/steel pan composite decks and split-slab applications with encapsulated waterproofing. If moisture content exceeds  $6\%$  mass, use Sikafloor® 81 EpoCem or Sikafloor®-24NA PurCem® as a surface treatment.

#### CHARACTERISTICS / ADVANTAGES

- Excellent penetration and adhesion
- Moisture tolerant
- Low Tensile Modulus
- Higher Tensile Elongation
- Low VOC
- Permeability ASTM E96 0.2 perms @ 16 mils w.f.t/d.f.t

#### PRODUCT INFORMATION

<b>Packaging</b>	Component A: 3 US gal. (11.3 L); Component B: 1.5 US gal. (5.7 L); Components A+B: 4.5 US. gal. (17 L)
<b>Appearance / Color</b>	Red transparent after mixing
<b>Shelf Life</b>	24 months in original unopened container under proper storage conditions

<b>Storage Conditions</b>	Store dry between 40–90 °F (4–32 °C). Precondition material for at least 24 hours between 65–75 °F (18–24 °C).	
<b>Volatile organic compound (VOC) content</b>	18 g/L	(ASTM D-2369)
<b>Viscosity</b>	822 (SP2/100) Components A + B	

## TECHNICAL INFORMATION

<b>Tensile Adhesion Strength</b>	> 400 psi (2.7 MPa) (100 % concrete failure)	(ASTM D-4541) 73 °F (23 °C) 50 % R.H.
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## APPLICATION INFORMATION

<b>Coverage</b>	160–200 ft <sup>2</sup> / per mixed US gal. (4.9–6.4 m <sup>2</sup> / L) at 8–10 mils (0.20–0.25 mm) wet film thickness (w.f.t.).
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One coat of Sikalastic® MT Primer is required when the concrete substrate moisture is <5 % (as measured with Tramex® CME/CMExpert type concrete moisture meter). Two coats of Sikalastic® MT Primer are required when the concrete substrate moisture falls between ≥ 5 % and < 6 % (as measured with Tramex® CME/CMExpert type concrete moisture meter). Total required thickness is 16–20 mils.

<b>Pot Life</b>	<b>Material Temperature</b>	<b>Time</b>
	50 °F (10 °C)	~ 50 minutes
	68 °F (20 °C)	~ 25 minutes
	86 °F (30 °C)	~ 15 minutes

<b>Cure Time</b>	<b>Ambient &amp; Substrate Temperature</b>	<b>Foot Traffic</b>
	50 °F (10 °C)	~ 24 hours
	68 °F (20 °C)	~ 8 hours
	86 °F (30 °C)	~ 6 hours

<b>Waiting Time / Overcoating</b>	Before applying second coat of Sikalastic® MT Primer allow:		
	<b>Ambient &amp; Substrate Temperature</b>	<b>Minimum</b>	<b>Maximum</b>
	50 °F (10 °C)	24 hours	3 days
	68 °F (20 °C)	8 hours	2 days
	86 °F (30 °C)	6 hours	1 day
	Before applying Sikalastic® 710, 720, or 390 on Sikalastic® MT Primer allow:		
	<b>Ambient &amp; Substrate Temperature</b>	<b>Minimum</b>	<b>Maximum</b>
	50 °F (10 °C)	24 hours	3 days
	68 °F (20 °C)	8 hours	2 days
	86 °F (30 °C)	6 hours	1 day

## APPLICATION INSTRUCTIONS

### SUBSTRATE PREPARATION

Surface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes and any other contaminants. All projections, rough spots, etc. should be dressed off to achieve a level surface prior to the application.

**Concrete** - Should be cleaned and prepared to achieve a laitance and contaminant-free, open textured surface by blast cleaning or equivalent mechanical means (CSP-3-4 per ICRI guidelines). Sweep and vacuum any remaining dirt and dust with a wet/dry vacuum. Removing residual dust will help ensure a tenacious bond between the primer and substrate.

**Plywood** - Should be clean and smooth, APA and exterior grade, not less than 1/2" thick, and spaced and supported according to APA guidelines. Joints should be sealed with Sikaflex® 2c or 1a and detailed, and may need embedded fabric reinforcement.

**Metal** - Should be thoroughly cleaned by solvent wiping, then grinding or blast cleaning to near white metal (SSPC SPC-3).

### MIXING

Premix Part A and Part B components separately using a low speed (400-600 rpm) mechanical mixer and Jiffy Paddle at slow speed to obtain uniform color (typically 30 seconds), making sure to scrape the solids from the bottom and sides of the pail. Pour Part B into Part A slowly and while mixing scrape the side of the container, Mix the combined material thoroughly until a homogeneous mixture and uniform color is obtained (typically 3 minutes). Use care not to allow the entrapment of air into the mixture. Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.

### APPLICATION

**Concrete** - Apply primer by 1/8" squeegee at the rate of 160–200 ft<sup>2</sup> / US gal (3.4–4.9 m<sup>2</sup> / L) at 8–10 mils (0.20–0.25 mm) wet film thickness and back roll with a phenolic resin core roller with pressure after 20 minutes. Coverage will vary depending on the porosity of the prepared substrate. Apply a second primer coat by squeegee at the rate of 160–200 ft<sup>2</sup> / US gal (3.4–4.9 m<sup>2</sup> / L) at 8–10 mils (0.20–0.25 mm) wet film thickness and back roll with pressure after 20 minutes after the first primer coat is tack free, which is typically after 12 hours at 68 °F (20 °C). Do not apply by dipping roller into mixing container. Pour a bead of product in the form of a ribbon on the substrate to be coated and then spread with squeegee and back roll. Ensure that the second coating is pore-free and pinhole-free and provides uniform and complete coverage over the entire concrete substrate.

**Plywood** - Apply primer by 1/8" squeegee at the rate of 160–200 ft<sup>2</sup> / US gal (3.4–4.9 m<sup>2</sup> / L) at 8–10 mils (0.20–0.25 mm) wet film thickness and back roll with a phenolic resin core roller. Coverage will vary depending on the porosity of the prepared substrate. Do not apply by dipping roller into mixing container. Pour a bead of product in the form of a ribbon on the substrate to be coated and then spread with squeegee and back roll.

**Metal** - Apply primer by brush or phenolic resin core roller at the rate of 225–275 ft<sup>2</sup> / US gal (5.5–6.7 m<sup>2</sup> / L) at 6–7 mils (0.15–0.18 mm) wet film thickness.

**Aggregate** –Aggregate is not required for traffic coating applications if Sikalastic® MT Primer is recoated within the maximum recoat window. When an extended application window is desired, or when using Sikalastic® MT

Primer in conjunction with SikaLevel underlayments and patching mortars, oven dried silica sand (20/30) shall be broadcast to refusal at a typical rate of 2 lbs/sf into a second coat of Sikalastic® MT Primer immediately upon primer application. Remove excess sand following cure prior to underlayment/patching mortar application.

### 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 temperatures.
- Maximum moisture content of concrete substrate by weight when measured with a Tramex CME or CMEx-pert type concrete moisture meter: 5 % with one application of Sikalastic® MT Primer; 6 % with two applications of Sikalastic® MT Primer.
- Primer materials will become more viscous at lower application temperatures and be more difficult to spread, which may affect yield. Material not preconditioned to at least 65 °F (18 °C) is likely to exhibit these characteristics.
- Minimum ambient and substrate temperature during application and curing of material is 50°F ; maximum is 95°F . Frequent monitoring of ambient and substrate temperature should always be done when applying epoxy primers. Note that low temperatures will slow down the cure, and high temperatures will accelerate it.
- Do not store materials outdoors exposed to sunlight for prolonged periods.
- Do not thin with solvents.
- Minimum age of concrete must be 21–28 days, depending on curing and drying conditions.
- The compressive strength of the concrete substrate should be at least 3500 psi at 28 days and at least 250 psi in tension at the time of application of Sikalastic® MT Primer.
- Any repairs required to achieve a level surface must be performed prior to application (consult a Sika representative for guidance on various Sika product solutions). Surface irregularities may reflect though 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.
- On grade, lightweight concrete, asphalt pavement, or insulated split slab applications, or applications where chained or studded tires may be used should not be coated with Sikalastic® Traffic Systems.
- Unvented metal pan decks or decks containing between-slab membranes require further technical evaluation prior to priming with Sikalastic® MT Primer –

- contact Sika regarding recommendations.
- Do not subject to continuous immersion.
- Precautions should be taken to prevent vapors and/or odors from entering the building/structure, including but not limited to turning off and sealing air intake vents and through-wall air conditioners, and other means of vapor/odor ingress during application and cure.
- Sikalastic® MT Primer is not UV stable and must be top coated or protected by a separate wearing course.
- Primer must be kept clean and recoated within maximum recoat period based upon ambient and substrate temperature. 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.

## 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.

## LOCAL RESTRICTIONS

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at <http://usa.sika.com/> or by calling Sika's Technical Service Department at 800.933.7452 nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instructions for each Sika product for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

## ECOLOGY, HEALTH AND SAFETY

Keep container tightly closed. Keep out of reach of children. Not for internal consumption. For industrial use only. For professional use only. For further information and advice regarding transportation, handling, storage and disposal of chemical products, users should refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety related data. Read the current actual Safety Data Sheet before using the product. In case of emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

## LEGAL DISCLAIMER

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structions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKA's Technical Service Department at 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. 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, ecological, 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. SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.** Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at <https://usa.sika.com/en/group/SikaCorp/termsandconditions.html> or by calling 201-933-8300.

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Product Data Sheet  
Sikalastic® MT Primer  
July 2018, Version 01.01  
020915951000000025

SikalasticMTPrimer-en-US-(07-2018)-1-1.pdf

