



PRODUCT DATA SHEET

Edition 12.2018/v1
CSC Master Format™ 07 18 00 (07 14 16)
TRAFFIC COATINGS

Sika® MT Primer

HIGH-SOLIDS, MOISTURE-TOLERANT AND ADHESION PROMOTING PRIMER FOR DRY OR DAMP SUBSTRATES

Description	A two component, high-solids, red tinted, translucent epoxy primer. It has been specifically formulated to perform as a moisture-tolerant and adhesion promoting primer.
Where to Use	<ul style="list-style-type: none"> Use as a primer on damp substrates where measured moisture contents are ≤ 6 % beneath Sikalastic® and selected Sika® waterproofing membranes. As a primer to eliminate outgassing of substrates when applying Sikagard® systems, including Sikagard® E.W.L. coatings. Use as an optional adhesion promoter on dry substrates beneath Sikalastic® and selected Sika® waterproofing systems.
Advantages	<ul style="list-style-type: none"> Easy to use, 2:1 p.b.v. ratio. Moisture tolerant up to 6 % p.b.w. Excellent penetration and adhesion. Low tensile modulus. Higher tensile elongation. Low VOC, LEED® Canada credits available.

Technical Data

Packaging	18 L (4.75 US gal.) and 567 L (149,7 US gal.) kits		
Colour	Red tint, translucent after mixing		
Yield	4 - 5 m ² /L (160 - 200 ft ² /US gal.) at 8 -10 mils wet film thickness (w.ft.).		
	* One (1) coat of Sika® MT Primer is required when the concrete substrate moisture is < 5 %. Total required thickness is 8 - 10 mils.		
	*Two (2) coats of Sika® MT Primer are required when the concrete substrate moisture is between 5 % and 6 %. Total required thickness is 16 - 20 mils.		
	Coverage rate will vary depending on the porosity and the surface profile of the prepared substrate.		
Shelf Life	2 years in original, unopened packaging. Store dry at temperatures between 4 and 32 °C (40 and 90 °F). Pre-condition product at temperatures between 18 and 24 °C (65 and 75 °F) before use.		
Mix Ratio	2:1 by volume		
Pot Life			
Material Temperature	Time		
10 °C (50 °F)	~ 50 minutes		
20 °C (68 °F)	~ 25 minutes		
30 °C (86 °F)	~ 15 minutes		
Waiting/Recoat Times	Before applying second coat of Sika® MT Primer allow:		
Ambient &			
Substrate Temperature	Minimum	Maximum	
10 °C (50 °F)	24 hours	3 days	
20 °C (68 °F)	12 hours	2 days	
30 °C (86 °F)	8 hours	1 day	
	Before applying Sikalastic® or Sikagard® Epoxy and Polyurethane coatings on Sika® MT Primer allow:		
Ambient &			
Substrate Temperature	Minimum	Maximum	
10 °C (50 °F)	24 hours	3 days	
20 °C (68 °F)	12 hours	2 days	
30 °C (86 °F)	8 hours	1 day	
Cure Times			
Ambient &			
Substrate Temperature	Foot traffic	Light traffic	Full cure
10 °C (50 °F)	~ 24 hours	~ 6 days	~ 10 days
20 °C (68 °F)	~ 12 hours	~ 4 days	~ 7 days
30 °C (86 °F)	~ 6 hours	~ 2 days	~ 5 days
Properties at 23 °C (73 °F) and 50 % R.H.			
Pull-off Strength ASTM D4541	> 2.7 MPa (400 psi) (100 % concrete failure)		
Shore D Hardness (7 days) ASTM D2240	78 - 82		
Permeability ASTM E96	9 g/m ² (24 hours / 24 °C [75 °F])		
Water Absorption ASTM D570	0.14 g/h - m ²		
Viscosity (mixed)	822 cps		
VOC Content ASTM D2369	≤ 50 g/L		
Chemical Resistance	Consult Sika Canada		

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.

HOW TO USE

Surface Preparation

The concrete surface must be clean and sound. Remove any dust, laitance, grease, oil, dirt, curing agents, impregnations, wax, foreign matter, coatings and detritus from the surface by appropriate mechanical means, in order to achieve a profile equivalent to ICRI / CSP 3 - 4 for decks and ICRI / CSP 1 - 3 for walls. The compressive strength of the concrete substrate should be at least 25 MPa (3625 psi) at 28 days and at least 1.5 MPa (218 psi) in tension at the time of application of Sika® MT Primer.

Mixing

Prestir each component separately to ensure uniform colour and consistency. Empty Component B (hardener) into Component A (resin) in the correct ratio and mix the combined components for at least three (3) minutes at low speed (300 - 450 rpm) with a drill fitted with an *Exomixer*® or *Jiffy* type paddle suited to the volume of the mixing container. For bulk packaging and when not mixing full units, each component must be pre-stirred separately to ensure product uniformity and then accurately measured into a suitably sized and clean mixing container.

Note: Keep the mixing paddle in the material to avoid introducing or entrapping air while mixing.

Ensure that the mixed components are completely blended to avoid any weak or partially cured spots in the applied material. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing.

When completely mixed, Sika® MT Primer should be uniform in colour and in consistency.

Do not mix more material than can be applied within the Pot Life, as determined by temperatures on site.

Application

Prior to application, measure and confirm substrate moisture content, ambient relative humidity, ambient and surface temperature and dew point. During installation, confirm and record above values at least once every three (3) hours, or more frequently whenever conditions change (e.g. ambient temperature rise/fall, relative humidity increase/ decrease, etc.).

Apply primer by squeegee at the rate of 4 - 5 m² / L (160 - 200 ft²/US gal.) and back roll to ensure a uniform 8 - 10 mils wet film thickness.

Where a second coat is required, wait until first coat is tack free, which is typically after 12 hours at 20 °C (68 °F) and apply a second coat of the primer using the same technique and at the same coverage as the first.

Ensure that the second coating is free of pinholes and holidays and provides uniform and complete coverage of the entire concrete substrate.

Clean Up

Clean all tools and equipment with Sika® Epoxy Cleaner. Once hardened, product can only be removed mechanically. Wash soiled hands and skin thoroughly in hot soapy water or use Sika® Hand Cleaner towels.

Limitations

- Moisture content of concrete substrate must be ≤ 6% by mass (p.b.w. – part by weight) as measured with a Tramex® CME/CMExpert type concrete moisture meter on mechanically prepared surface according to this product data sheet (preparation to ICRI / CSP 3 - 4). If moisture content of concrete substrate is > 6 % by mass, use Sikafloor®-81 EpoCem®CA on horizontal surfaces and Sikagard®-75 EpoCem®CA on walls and overhead.
- Minimum/Maximum ambient and substrates temperatures 10/30 °C (50/85 °F).
- Maximum ambient relative humidity 85 % (during application and curing)
- Substrate temperature must be 3 °C (5.5 °F) above the measured dew point.
- Do not hand mix material; mechanically mix only.
- Do not thin this product with water or solvent.
- The minimum thickness of Sika® MT Primer when the concrete substrate moisture is < 5 % (as measured with Tramex® CME/CMExpert type concrete moisture meter) is one coat at 8 - 10 mils.
- The minimum thickness of Sika® MT Primer when the concrete substrate moisture falls between 5 % and 6 % (as measured with Tramex® CME/CMExpert type concrete moisture meter) is 16 - 20 mils w.f.t., achieved through two coats, each at 8 -10 mils per coat.
- Do not apply while ambient and substrate temperatures are rising, as pinholes may occur. Ensure there is no vapour drive at the time of application. Refer to ASTM D4263 Standard Test Method for visual indication of vapour drive.
- Freshly applied material should be protected from dampness, condensation and water for at least 72 hours.
- Use of unvented heaters and certain heat sources may result in defects (e.g. blushing, whitening, debonding, etc.).
- Not recommended for exterior slabs on grade where freeze/thaw conditions may exist.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users should refer to the most recent SAFETY DATA SHEET containing physical, ecological, toxicological and other safety-related data.

KEEP OUT OF REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY

The Information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions, within their shelflife. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

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