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
- 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 Sikal® waterproofing systems.

Advantages
- 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 m²/L (160 - 200 ft²/US gal.) at 8 -10 mils wet film thickness (w.f.t.).

* 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.

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:

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Minimum</th>
<th>Maximum</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 °C (50 °F)</td>
<td>24 hours</td>
<td>3 days</td>
</tr>
<tr>
<td>20 °C (68 °F)</td>
<td>12 hours</td>
<td>2 days</td>
</tr>
<tr>
<td>30 °C (86 °F)</td>
<td>8 hours</td>
<td>1 day</td>
</tr>
</tbody>
</table>

Before applying Sikalastic® or Sikagard® Epoxy and Polyurethane coatings on Sika® MT Primer allow:

<table>
<thead>
<tr>
<th>Temperature</th>
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<td>1 day</td>
</tr>
</tbody>
</table>

Cure Times

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Foot traffic</th>
<th>Light traffic</th>
<th>Full cure</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 °C (50 °F)</td>
<td>~ 24 hours</td>
<td>~ 6 days</td>
<td>~ 10 days</td>
</tr>
<tr>
<td>20 °C (68 °F)</td>
<td>~ 12 hours</td>
<td>~ 4 days</td>
<td>~ 7 days</td>
</tr>
<tr>
<td>30 °C (86 °F)</td>
<td>~ 6 hours</td>
<td>~ 2 days</td>
<td>~ 5 days</td>
</tr>
</tbody>
</table>

Properties at 23 °C (73 °F) and 50 % R.H.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pull-off Strength ASTM D4541</td>
<td>&gt; 2.7 MPa (400 psi) (100 % concrete failure)</td>
</tr>
<tr>
<td>Shore D Hardness (7 days) ASTM D2240</td>
<td>78 - 82</td>
</tr>
<tr>
<td>Permeability ASTM E96</td>
<td>9 g/m² (24 hours / 24 °C [75 °F])</td>
</tr>
<tr>
<td>Water Absorption ASTM D570</td>
<td>0.14 g/h - m²</td>
</tr>
<tr>
<td>Viscosity (mixed)</td>
<td>822 cps</td>
</tr>
<tr>
<td>VOC Content ASTM D2369</td>
<td>≤ 50 g/L</td>
</tr>
<tr>
<td>Chemical Resistance</td>
<td>Consult Sika Canada</td>
</tr>
</tbody>
</table>

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 or equivalent 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.

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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.