



**PRODUCT DATA SHEET**

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TRAFFIC COATING

# Sikalastic®-120 FS Primer

## HIGH-SOLIDS, ADHESION PROMOTING FAST-SETTING PRIMER

<b>Description</b>	A two-components, high-solids, translucent epoxy primer. It has been specifically formulated to perform as an adhesion promoting primer for fast turn around applications.
<b>Where to Use</b>	<ul style="list-style-type: none"> <li>As a primer to eliminate outgassing of substrates when applying Sikalastic® systems, including Sikagard® E.W.L. coatings.</li> <li>Use as an adhesion promoter on dry substrates beneath Sikalastic® membrane and waterproofing systems.</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>Easy to use, 3 : 2 parts by volume ratio.</li> <li>Very rapid overcoating time, around 2 hours at 23 °C (73 °F).</li> <li>Excellent penetration and adhesion.</li> <li>Low tensile modulus.</li> <li>Higher tensile elongation.</li> <li>Low VOC, LEED® Canada credits available.</li> </ul>

**Technical Data**

<b>Packaging</b>	17.5 L (4.63 US gal.) kits (Part A : 10.5 L (2.78 US gal.) ; Part B : 7 L (1.85 US gal.) )		
<b>Colour</b>	Translucent		
<b>Yield</b>	4 - 5 m²/L (160 - 200 ft²/US gal.) at 8 -10 mils wet film thickness (w.f.t.). Coverage will vary depending on the porosity of the prepared substrate.		
<b>Shelf Life</b>	2 years in original, unopened packaging. Store dry between 4 - 32 °C (40 - 90 °F). Precondition product to 18 - 24 °C (65 - 75 °F) before use.		
<b>Mix Ratio</b>	3 : 2 by volume		
<b>Solids Content</b>	95 %		
<b>Pot Life</b>			
Material Temperature	Time		
10 °C (50 °F)	~ 15 minutes		
23 °C (73 °F)	~ 12 minutes		
30 °C (86 °F)	~ 8 minutes		

**Waiting / Recoat Times**

Before applying Sikalastic® or Sikagard® Epoxy and Polyurethane coatings onto Sikalastic®-120 FS Primer allow :

Ambient &Substrate Temperature	Minimum	Maximum
10 °C (50 °F)	8 hours	24 hours
23 °C (73 °F)	2.5 hours	12 hours
30 °C (86 °F)	1.5 hours	5 hours

**Cure Times**

Ambient & Substrate Temperature	Foot traffic	Light traffic	Full cure
10 °C (50 °F)	~ 14 hours	~ 24 hours	~ 36 hours
23 °C (73 °F)	~ 5 hours	~ 8 hours	~ 12 hours
30 °C (86 °F)	~ 3 hours	~ 5 hours	~ 8 hours

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

<b>Pull-off Strength ASTM D4541</b>	3.5 MPa (500 psi) (100 % concrete failure)
<b>Shore D Hardness (7 days) ASTM D2240</b>	85
<b>Permeability ASTM E96</b>	0.14 g/m² (24 hours / 24 °C [75 °F])
<b>Water Absorption ASTM D570</b>	0.29 %
<b>Viscosity (mixed)</b>	375 cps
<b>VOC Content</b>	45 g/L
<b>Chemical Resistance</b>	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 bond inhibiting material 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 Sikalastic®-120 FS Primer.

### Mixing

Premix 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, using a low speed drill (300 - 450 rpm) and *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 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, Sikalastic®-120 FS 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, moisture vapor transmission (as per ASTM D4263), ambient relative humidity, ambient and surface temperature and dew point. During installation, confirm and record above values at least once every 3 hours, or more frequently whenever conditions change (e.g. ambient temperature rise/fall, relative humidity increase/ decrease, etc.).

Apply primer with a squeegee at the rate of 4 - 5 m<sup>2</sup>/L (160 - 200 ft<sup>2</sup>/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 achieved after approximately 2 hours at 23 °C (73 °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 ≤ 4 % 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 CSP-3 to CSP-4 as per ICRI guidelines). If moisture content of concrete substrate is > 4 % by mass, use Sika MT Primer. If moisture content is > 6 %, use Sikafloor®-81 EpoCem®<sup>CA</sup> on horizontal surfaces and Sikagard®-75 EpoCem®<sup>CA</sup> on walls and overhead applications.
- Minimum/Maximum ambient and substrates temperatures: 10/30 °C (50/86 °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.
- 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 until it is recoated.
- 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](http://www.sika.ca)

#### SIKA CANADA INC.

**Head Office**  
601, avenue Delmar  
Pointe-Claire, Quebec  
H9R 4A9

**Other locations**  
Toronto  
Edmonton  
Vancouver

1-800-933-SIKA  
[www.sika.ca](http://www.sika.ca)

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