

**SYSTEM DATA SHEET**

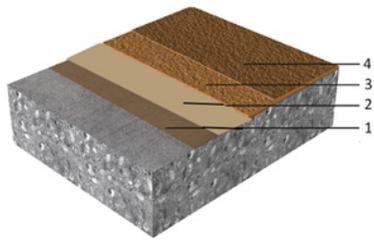
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TRAFFIC COATINGS

# Sikalastic® Pronto RB-5700 PUMA

## RAPID CURING, WATERPROOFING SYSTEM FOR HIGH TRAFFIC PARKING DECK APPLICATIONS

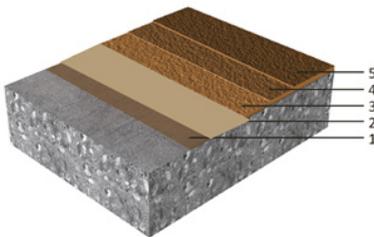
<b>Description</b>	Sikalastic® Pronto RB-5700 PUMA is a durable, rapid curing, traffic deck waterproof surfacing system based on reactive acrylic resins (PUMA/PMMA).
<b>Where to Use</b>	<ul style="list-style-type: none"> <li>▪ Multilevel above ground and underground parking structures</li> <li>▪ Critical high traffic areas with minimal tolerance for facility downtime</li> <li>▪ Concrete surfaces on top decks, intermediate decks, ramps and pedestrian decks</li> <li>▪ Interior and exterior (UV exposed) decks</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>▪ Elastomeric PUMA technology provides low temperature crack bridging protection against water and chloride ingress</li> <li>▪ Rapid cure characteristics, capable of multi-layer system installation and cure in a single day, minimizing facility shutdown time</li> <li>▪ Low temperature cure, extends application season</li> <li>▪ Abrasion resistant wear layer withstands demands of high traffic</li> </ul>
<b>Approvals / Standards</b>	<ul style="list-style-type: none"> <li>▪ Meets all requirements of ASTM C957-17</li> <li>▪ Slip resistant test report, class R11 V4 according to DIN 51130, Roxeler Institute, Germany, Dec. 2015</li> <li>▪ Slip resistant test report, Coefficient of friction <math>\mu = 0.47</math> according to DIN 51131, Roxeler Institute, Germany, Dec. 2015</li> </ul>

**SYSTEM INFORMATION**  
System Structure



**Sikalastic® Pronto RB-5700 PUMA system (~ 3 - 5 mm) (1/8 - 13/64 in) / Application on horizontal surfaces**

1. Primer	Sikalastic®-511/-513 Pronto Primer
2. Base coat	Sikalastic®-532 Pronto
3. Wearing Course	Sikalastic®-532 Pronto (filled 1:2 by weight with Sikalastic®-1 Pronto Filler) & full broadcast quartz sand (0.7 - 1.2 mm)
4. Top coat	Sikalastic®-518 Pronto Topcoat



**Sikalastic® Pronto RB-5700 PUMA system (~ 3 - 5 mm) (1/8 - 13/64 in) / Application on ramps & inclines**

1. Primer	Sikalastic®-511/-513 Pronto Primer
2. Base coat	Sikalastic®-532 Pronto
3. First Wear Course	Sikalastic®-532 Pronto (filled 1:2 by weight with Sikalastic®-1 Pronto Filler) & partial broadcast quartz sand (0.7 - 1.2 mm)
4. Second Wear Course	Sikalastic®-532 Pronto (filled 1:2 by weight with Sikalastic®-1 Pronto Filler) & full broadcast quartz sand (0.7 - 1.2 mm)
5. Top coat	Sikalastic®-518 Pronto Topcoat

<b>Chemical Base</b>	Reactive Acrylic Resins
<b>Colour</b>	Standard colours for Sikalastic®-518 Pronto Topcoat: RAL 7012 Basalt Grey, RAL 7015 Slate Grey, RAL 7046 Telegrey 2. Custom colours available upon request.
<b>Nominal Thickness</b>	~ 3 - 5 mm (1/8 - 13/64 in)
<b>TECHNICAL INFORMATION</b>	
<b>Crack Bridging Ability</b>	Passes ASTM C1305 in accordance with ASTM C957
<b>External Fire Performance</b>	B roof T1 (DIN EN 13501-1 and DIN EN 13501-5)
<b>Reaction to Fire</b>	Cfl-S1 (DIN EN 13501-1)
<b>Chemical Resistance</b>	Refer to the chemical resistance table of Sikalastic®-518 Pronto Topcoat

<b>Coefficient of Friction</b>	$\mu=0.47$ (DIN 51131)
<b>Skid / Slip Resistance</b>	R11 V4 (DIN 51130)

#### APPLICATION INFORMATION

#### SIKALASTIC® PRONTO RB-5700 PUMA SYSTEM (~ 3–5 MM) / APPLICATION ON HORIZONTAL SURFACES

		<b>Yield</b>	<b>Thickness</b>
<b>Primer</b>	Sikalastic®-511/-513 Pronto Primer	~ 2.5 m <sup>2</sup> /L (100 ft <sup>2</sup> /US gal)	~ 16 mil w.f.t. (0.40 mm)
<b>Optional: Levelling Mortar (surface roughness up to 3 mm)</b>	Sikalastic®-511 Pronto Primer + Sikalastic®-1 Pronto Filler (mixed at 1:2, by weight)	0.3 – 1.0 m <sup>2</sup> /L (13 – 40 ft <sup>2</sup> /US gal.)	40 - 120 mil w.f.t. (1 – 3 mm)
<b>Base Coat</b>	Sikalastic®-532 Pronto	~ 0.6 m <sup>2</sup> /L (25 ft <sup>2</sup> /US gal.)	~ 64 mil w.f.t. (1.6 mm)
<b>Wearing Course</b>	Slurry Mixture: Sikalastic®-532 Pronto (filled 1:2, by weight with Sikalastic®-1 Pronto Filler). <i>For estimating purposes: ~ 1 L of slurry mixture will require ~ 0.6 L (0.6 kg) Sikalastic®-532 Pronto mixed with ~ 1.2 kg Sikalastic®-1 Pronto Filler</i>	~ 0.5 m <sup>2</sup> /L (19 ft <sup>2</sup> /US gal.)	~ 83 mil w.f.t. (2.1 mm)
<b>Broadcasting in excess</b>	Quartz sand (0.7 – 1.2 mm, 16 - 24 U.S sieve)	~ 4 – 6 kg/m <sup>2</sup> (0.8 – 1.2 lb/ft <sup>2</sup> )	
<b>Top Coat</b>	Sikalastic®-518 Pronto Topcoat	1.4 m <sup>2</sup> /L (57 ft <sup>2</sup> /US gal.)	~ 28 mil w.f.t. (0.7 mm)

**Notes:**

- w.f.t. = d.f.t. as materials are 100 % solids content by volume

#### Sikalastic® Pronto RB-5700 PUMA SYSTEM (~ 3 – 5 mm) / APPLICATION ON RAMPS AND INCLINES

		<b>Yield</b>	<b>Thickness</b>
<b>Primer</b>	Sikalastic®-511/-513 Pronto Primer	~ 2.5 m <sup>2</sup> /L (100 ft <sup>2</sup> /US gal)	~ 16 mil w.f.t. (0.40 mm)
<b>Optional Levelling Mortar (surface roughness up to 3 mm)</b>	Sikalastic®-511 Pronto Primer + Sikalastic®-1 Pronto Filler (mix at 1:2 by weight) + ~ 2 % Sika Extender T (ie 1 Sika® cup per L)	0.3 – 1.0 m <sup>2</sup> /L (13 – 40 ft <sup>2</sup> /US gal)	40 – 120 mil d.f.t. (1 – 3 mm)
<b>Base Coat</b>	Sikalastic®-532 Pronto + 2 % Sika Extender T (ie. 1 Sika® cup per L of Sikalastic®-532 Pronto)	~ 0.6 m <sup>2</sup> /L (25 ft <sup>2</sup> /US gal)	~ 64 mil d.f.t. (1.6 mm)
<b>First Wearing Course</b>	Slurry Mixture: Sikalastic®-532 Pronto (filled 1:2 by weight with Sikalastic®-1 Pronto Filler) + ~ 1 to 2 % Sika Extender T (ie. 1/2 to 1 Sika® cup per L of Sikalastic®-532 Pronto). <i>For estimating purposes: ~ 1 L of slurry mixture will require ~ 0.6 L (0.6 kg) Sikalastic®-532 Pronto mixed with ~ 1.2 kg Sikalastic®-1 Pronto Filler</i>	~ 1.3 m <sup>2</sup> /L (54 ft <sup>2</sup> /US gal)	~ 30 mil d.f.t. (0.75 mm)
<b>Partial Sand Broadcast</b>	Quartz sand (0.7 – 1.2 mm, 16 - 24 U.S sieve)	~ 1 – 2 kg/m <sup>2</sup> (0.2 – 0.4 lb/ft <sup>2</sup> )	
<b>Second Wearing Course</b>	Slurry Mixture: Sikalastic®-532 Pronto (filled 1:2 by weight with Sikalastic®-1 Pronto Filler) + ~ 1 to 2 % Sika Extender T (ie. 1/2 to 1 Sika® cup per L of Sikalastic®-532 Pronto). <i>For estimating purposes: ~ 1 L of slurry mixture will require ~ 0.6 L (0.6 kg) Sikalastic®-532 Pronto mixed with ~ 1.2 kg Sikalastic®-1 Pronto Filler</i>	~ 1.3 m <sup>2</sup> /L (54 ft <sup>2</sup> /US gal)	~ 30 mil d.f.t. (0.75 mm)
<b>Sand Broadcast to excess</b>	Quartz sand (0.7 – 1.2 mm, 16 - 24 U.S sieve)	~ 3 – 4 kg/m <sup>2</sup> (0.6 – 0.8 lb/ft <sup>2</sup> )	
<b>Top Coat(s)*</b>	Sikalastic®-518 Pronto Topcoat	~ 1.2 m <sup>2</sup> /L (50 ft <sup>2</sup> /US gal)	32 mil d.f.t. (0.8 mm)

\*32 mils total, in 1 or 2 applications depending on ramp inclination

<b>Product Temperature</b>	Refer to the individual product data sheets
<b>Ambient Air Temperature</b>	0 °C (32 °F) min. / 30 °C (86 °F) max.
<b>Relative Air Humidity</b>	~ 80 % RH max
<b>Dew Point</b>	<b>Beware of condensation!</b> The substrate and uncured floor must be at least 3 °C (5 °F) above dew point to reduce the risk of condensation or blooming on the surface finish.
<b>Substrate Temperature</b>	0 °C (32 °F) min. / 30 °C (86 °F) max.
<b>Substrate Moisture Content</b>	When performing application work with Sikalastic® Pronto RB-5700 PUMA, the substrate moisture content must not exceed 4 % pbw measured by Tramex.

<b>Waiting Time / Overcoating</b>	Before applying Sikalastic®-532 Pronto on Sikalastic®-511/-513 Pronto Primer allow:		
	<b>Substrate temperature</b>	<b>Minimum</b>	
	5 °C (41 °F)	50 min	
	10 °C (50 °F)	45 min	
	20 °C (68 °F)	40 min	
	30 °C (86 °F)	35 min	
	30 °C (86 °F)	35 min	
	Before applying Sikalastic®-518 Pronto on Sikalastic®-532 allow:		
	<b>Substrate temperature</b>	<b>Minimum</b>	
	5 °C (41 °F)	80 min	
	10 °C (50 °F)	60 min	
	15 °C (59 °F)	50 min	
	20 °C (68 °F)	45 min	
	25 °C (77 °F)	35 min	
30 °C (86 °F)	30 min		
<b>Applied Product Ready for Use</b>	<b>Temperature</b>	<b>Foot traffic</b>	<b>Full traffic</b>
	0 °C (32 °F)	~ 50 min	~ 2 hours
	10 °C (50 °F)	~ 50 min	~ 2 hours
	20 °C (68 °F)	~ 40 min	~ 1 hour
	30 °C (86 °F)	~ 30 min	~ 1 hour

## PRODUCT INFORMATION

<b>Packaging</b>	Refer to the individual product data sheets
<b>Shelf Life</b>	Refer to the individual product data sheets
<b>Storage Conditions</b>	Refer to the individual product data sheets
<b>Cleaning / Maintenance</b>	Refer to Sikalastic® Park Deck Maintenance Guide.

## Limitation

- Sikalastic® Pronto RB-5700 PUMA may only be used by experienced professionals.
- See Sikalastic® Pronto Primer data sheet for substrate preparation requirements.
- **Beware of condensation!** The substrate and uncured floor must be at least 3 °C (5 °F) above dew point to reduce the risk of condensation or blooming on the surface finish.
- Freshly applied Sikalastic® Pronto RB-5700 PUMA must be protected from damp, condensation and water for at least one (1) hour.
- Not for use on ground bearing concrete slabs.
- Use a *Jiffy*-type mixing paddle to ensure adequate dispersion when blending Sika Extender T into Sikalastic Pronto Resins for incline and vertical applications.
- Use spark-proof mixing equipment for internal applications.
- Always ensure good ventilation when using Sikalastic® Pronto RB-5700 PUMA in a confined space.
- In order to ensure optimum curing during internal applications the air must be exchanged at least seven (7) times per hour. During application and curing, use a forced fresh air supply / exhausting of fumes with appropriate equipment (spark-free / explosion proof).
- Systems based on reactive acrylic resins exhibit a characteristic odour during application and prior to achieving full cure, once fully cured they are taint-free. All unpackaged goods should be removed from the area of the works during application.
- Do not apply in presence of foodstuffs. Any foodstuffs (packaged or not) should be completely isolated from the flooring works during the application process and until the products are fully cured.
- For colour uniformity, ensure the Sikalastic®-518 Pronto Topcoat in each area is applied from the same control batch number.
- Under certain conditions, underfloor heating or high ambient temperatures combined with high point loading, may lead to imprints in the resin.
- Fossil fuel heaters can produce large quantities of both CO<sub>2</sub> and H<sub>2</sub>O water vapour, which may adversely affect the finish. For heating, consider using only electric powered warm air blower systems.

## 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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