



SYSTEM DATA SHEET

Sikalastic® Pronto RB-5700 PUMA

RAPID CURING, WATERPROOFING SYSTEM FOR HIGH TRAFFIC PARKING DECK APPLICATIONS

PRODUCT DESCRIPTION

Sikalastic® Pronto RB-5700 PUMA is a durable, rapid curing, traffic deck waterproof surfacing system based on reactive acrylic resins (PUMA/PMMA).

WHERE TO USE

Sikalastic® Pronto RB-5700 PUMA may only be used by experienced professionals.

- Multilevel above ground and underground parking structures
- Critical high traffic areas with minimal tolerance for facility downtime
- Concrete surfaces on top decks, intermediate decks, ramps and pedestrian decks
- Interior and exterior (UV exposed) decks

CHARACTERISTICS / ADVANTAGES

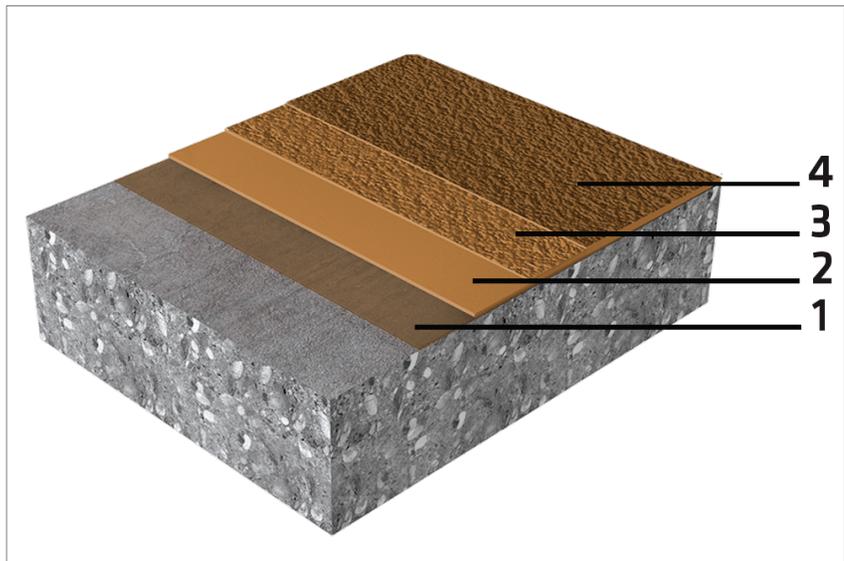
- Elastomeric PUMA technology provides low temperature crack bridging protection against water and chloride ingress
- 0 coulombs per ASTM C1202 Rapid Chloride Permeability
- Rapid cure characteristics, capable of multi-layer system installation and cure in a single day, minimizing facility shutdown time
- Low temperature cure, extends application season
- Abrasion resistant wear layer withstands demands of high traffic

APPROVALS / CERTIFICATES

- Meets all requirements of ASTM C957-17
- Slip resistant test report, class R11 V4 according to DIN 51130, Roxeler Institute, Germany, Dec. 2015
- Slip resistant test report, Coefficient of friction $\mu= 0.47$ according to DIN 51131, Roxeler Institute, Germany, Dec. 2015

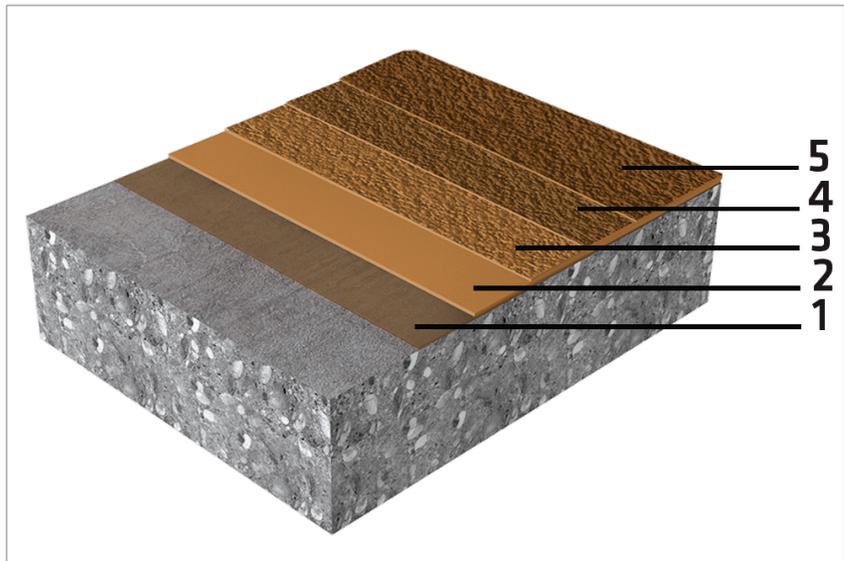
SYSTEMS

System Structure



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

1. Primer	Sikalastic®-510N/-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®-510N/-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

Composition	Reactive Acrylic Resins
Appearance	Slip resistant semi-gloss finish
Colour	Standard colours for Sikalastic®-518 Pronto Topcoat: RAL 7012 Basalt Grey, RAL 7015 Slate Grey, RAL 7046 Telegrey 2. Custom colours available upon request.
Nominal Thickness	~ 3 - 5 mm (1/8 - 13/64 in)

TECHNICAL INFORMATION

Pull-Off Strength	> 1.5 MPa	(ASTM D7234)
Crack Bridging Ability	Passes ASTM C1305 in accordance with ASTM C957	
External Fire Performance	B roof T1 (DIN EN 13501-1 and DIN EN 13501-5)	
Reaction to Fire	Cfl-S1 (DIN EN 13501-1)	
Chemical Resistance	Contact Sika Canada in reference to the chemical resistance of Sikalastic®-518 Pronto Topcoat	
Coefficient of Friction	$\mu=0.47$ (DIN 51131)	
Skid / Slip Resistance	R11 V4 (DIN 51130)	

APPLICATION INFORMATION

Consumption

Sikalastic® Pronto RB-5700 PUMA System (~ 3–5 MM) / APPLICATION ON HORIZONTAL SURFACES

		Yield	Thickness
Primer	Sikalastic®-510N/511/-513 Pronto Primer	~ 2.5 m ² /L (100 ft ² /US gal)	~ 16 mil w.f.t. (0.40 mm)
Optional: Levelling Mortar (surface roughness up to 3 mm)	Sikalastic®-511 Pronto Primer + Sikalastic®-1 Pronto Filler (mixed at 1:2, by weight)	0.3 – 1.0 m ² /L (13 – 40 ft ² /US gal.)	40 - 120 mil w.f.t. (1 – 3 mm)
Base Coat	Sikalastic®-532 Pronto	~ 0.6 m ² /L (25 ft ² /US gal.)	~ 64 mil w.f.t. (1.6 mm)
Wearing Course	Slurry Mixture: Sikalastic®-532 Pronto (filled 1:2, by weight with Sikalastic®-1 Pronto Filler).	~ 0.5 m ² /L (19 ft ² /US gal.)	~ 83 mil w.f.t. (2.1 mm)
Broadcasting to excess	Quartz sand (0.7 – 1.2 mm, 16 - 24 U.S sieve)	~ 4 – 6 kg/m ² (0.8 – 1.2 lb/ft ²)	
Top Coat	Sikalastic®-518 Pronto Topcoat	1.4 m ² /L (57 ft ² /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
- For estimating purposes: ~ 1 L of Wearing Course slurry mixture will require ~ 0.6 L (0.6 kg) Sikalastic®-532 Pronto mixed with ~ 1.2 kg Sikalastic®-1 Pronto Filler

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

		Yield	Thickness
Primer	Sikalastic®-510N/511/-513 Pronto Primer	~ 2.5 m ² /L (100 ft ² /US gal)	~ 16 mil w.f.t. (0.40 mm)
Optional: Levelling Mortar (surface roughness up to 3 mm)	Sikalastic®-511 Pronto Primer + Sikalastic®-1 Pronto Filler (mixed at 1:2, by weight)	0.3 – 1.0 m ² /L (13 – 40 ft ² /US gal)	40 – 120 mil d.f.t. (1 – 3 mm)
Base Coat	Sikalastic®-532 Pronto + 2 % Sika Extender T	~ 0.6 m ² /L (25 ft ² /US gal)	~ 64 mil d.f.t. (1.6 mm)
First Wearing Course	Slurry Mixture: Sikalastic®-532 Pronto (filled 1:2 by weight with Sikalastic®-1 Pronto Filler).	~ 1.3 m ² /L (54 ft ² /US gal)	~ 30 mil d.f.t. (0.75 mm)
Partial sand broadcast	Quartz sand (0.7 – 1.2 mm, 16 - 24 U.S sieve)	~ 1 – 2 kg/m ² (0.2 – 0.4 lb/ft ²)	
Second Wearing Course	Slurry Mixture: Sikalastic®-532 Pronto (filled 1:2 by weight with Sikalastic®-1 Pronto Filler).	~ 1.3 m ² /L (54 ft ² /US gal)	~ 30 mil d.f.t. (0.75 mm)
Sand broadcast to excess	Quartz sand (0.7 – 1.2 mm, 16 - 24 U.S sieve)	~ 3 – 4 kg/m ² (0.6 – 0.8 lb/ft ²)	
Top Coat(s)*	Sikalastic®-518 Pronto Topcoat	~ 1.2 m ² /L (50 ft ² /US gal)	32 mil d.f.t. (0.8 mm)

Notes:

- For high inclinations of 15–20 %, the use of Sika® Extender T in the wearing courses might be considered
- *32 mils total, in 1 or 2 applications depending on ramp inclination

Product Temperature	Refer to the individual product data sheets
Ambient Air Temperature	0 °C (32 °F) min. / 30 °C (86 °F) max.
Relative Air Humidity	~ 80 % RH max
Dew Point	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.
Substrate Temperature	0 °C (32 °F) min. / 30 °C (86 °F) max.
Substrate Moisture Content	When performing application work with Sikalastic® Pronto RB-5700 PUMA, the substrate moisture content must not exceed 4 % pbw measured by Tramex.

Waiting Time / Overcoating

Before overcoating Sikalastic®-511/-513 Pronto Primer with Sikalastic®-532 Pronto allow:

Substrate temperature	Minimum
0 °C (32 °F)	60 minutes
5 °C (41 °F)	50 minutes
10 °C (50 °F)	40 minutes
20 °C (68 °F)	35 minutes
30 °C (86 °F)	30 minutes

Before overcoating Sikalastic®-532 Pronto allow:

Substrate temperature	Minimum
0 °C (32 °F)	80 minutes
5 °C (41 °F)	80 minutes
10 °C (50 °F)	60 minutes
15 °C (59 °F)	50 minutes
20 °C (68 °F)	45 minutes
25 °C (77 °F)	35 minutes
30 °C (86 °F)	30 minutes

Applied Product Ready for Use	Temperature	Foot Traffic	Full Cure
	0 °C (32 °F)	~ 50 minutes	~ 2 hours
	10 °C (50 °F)	~ 50 minutes	~ 2 hours
	20 °C (68 °F)	~ 40 minutes	~ 1 hour
	30 °C (86 °F)	~ 30 minutes	~ 1 hour

PRODUCT INFORMATION

CSC MasterFormat®	07 18 00 TRAFFIC COATINGS
Packaging	Refer to the individual product data sheets
Shelf Life	Refer to the individual product data sheets
Storage Conditions	Refer to the individual product data sheets

BASIS OF PRODUCT DATA

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.

OTHER DOCUMENTS

- Sikalastic®-511 Pronto Primer product data sheet
- Sikalastic®-532 Pronto product data sheet
- Sikalastic®-518 Pronto Topcoat product data sheet
- Typical Details - Sikalastic® Pronto RB-5700 PUMA

LIMITATIONS

- 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 int 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.
- Expect slight sheen and colour variations when placed adjacent to other Sika® Epoxy or Polyurethane topcoat finishes
- Under certain conditions, underfloor heating or high ambient temperatures combined with high point loading, may lead to imprints in the resin.
- Direct-fired gas or kerosene heaters increase the carbon dioxide content in the air and also produce significant amounts of water vapour. Properly exhaust heaters to the exterior of the building to prevent damage to the work (such as but not limited to whitening, debonding, etc.).

ENVIRONMENT, HEALTH & SAFETY

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

MAINTENANCE

CLEANING

Refer to the Sikalastic® Park Deck System Maintenance Guide

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

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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