BUILDING TRUST

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).

USES

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

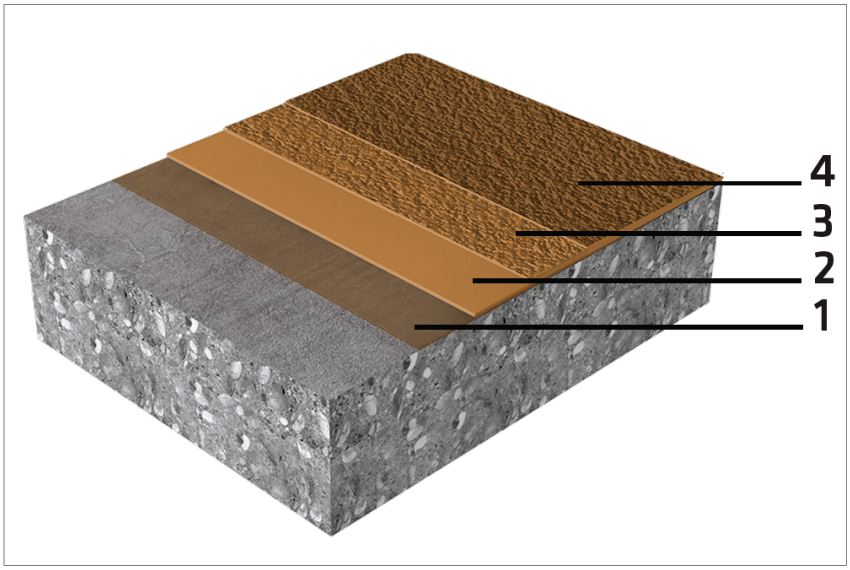
- Elastomeric PUMA technology provides low temperature crack bridging protection against water and chloride ingress
- Rapid cure characteristics, capable of multi-layer system installation and cure in a single day, minimizing facility shutdown time
- Low temperature cure, extends application season
-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

APPROVALS / STANDARDS

- 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 μ= 0.47 according to DIN 51131, Roxeler Institute, Germany, Dec. 2015

SYSTEM INFORMATION

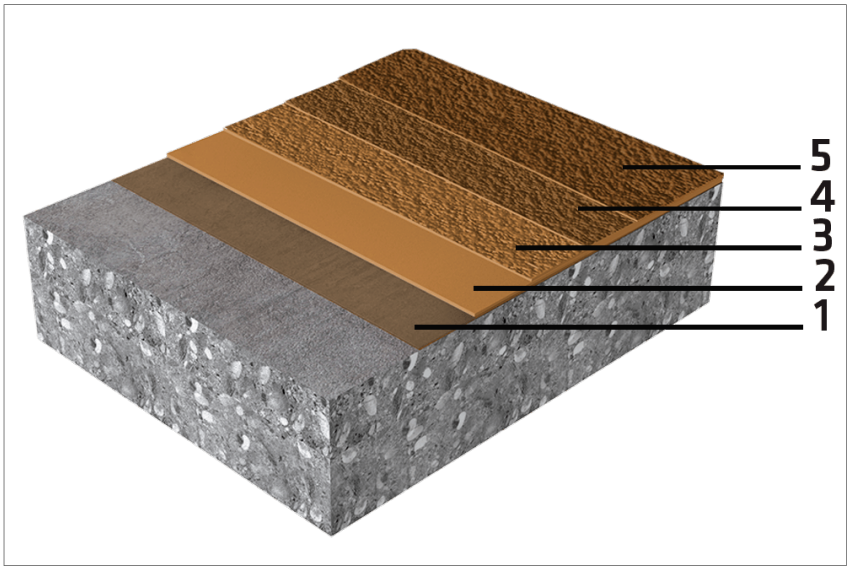
System Structure



Application on Horizontal Surfaces:
Sikalastic® Pronto RB-5700 PUMA system* (~191 mils)

1. Primer	Sikalastic®-511 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 (16 - 30 U.S sieve)
4. Top coat	Sikalastic®-518 Pronto Topcoat

* Sikafloor Pronto Hardener is required for each material, refer to indivdual product data sheets for exact dosing recomendations.



Application on Ramps & Inclines:
Sikalastic® Pronto RB-5700 PUMA system* (~171 mils)

1. Primer	Sikalastic®-511 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 (16 - 30 U.S sieve)
4. Second Wear Course	Sikalastic®-532 Pronto (filled 1:2 by weight with Sikalastic®-1 Pronto Filler) & full broadcast quartz sand (16 - 30 U.S sieve)
5. Top coat	Sikalastic®-518 Pronto Topcoat

* Sikafloor Pronto Hardener is required for each material, refer to indivdual product data sheets for exact dosing recomendations.

Composition	Reactive Acrylic Resins
Appearance	Slip resistant semi-gloss finish
Color	Standard colors for Sikalastic®-518 Pronto Topcoat: Gray, Charcoal, & Tan
Nominal thickness	171 - 191 mils

TECHNICAL INFORMATION

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 in reference to the chemical resistance of Sikalastic®-518 Pronto Topcoat
Coefficient of Friction	μ=0.47 (DIN 51131, μ>0.45= safe)

APPLICATION INFORMATION

Coverage

APPLICATION ON HORIZONTAL SURFACES:
Sikalastic® Pronto RB-5700 PUMA System (~ 191 mils)

		Yield	Thickness
Primer	Sikalastic®-511 Pronto Primer	100 ft²/US gal.	~ 16 mil w.f.t.
Optional: Levelling Mortar (surface roughness up to 3 mm)	Sikalastic®-511 Pronto Primer + Sikalastic®-1 Pronto Filler (mixed at 1:2, by weight)	13 – 40 ft²/US gal.	40 - 120 mil w.f.t.
Detail Coat (s)	Sikalastic®-532 Pronto	53 ft²/US gal.	~ 30 mil w.f.t.
Base Coat	Sikalastic®-532 Pronto	25 ft²/US gal.	~ 64 mil w.f.t.
Wearing Course	Slurry Mixture: Sikalastic®-532 Pronto (filled 1:2, by weight with Sikalastic®-1 Pronto Filler).	19 ft²/US gal.*	~ 83 mil w.f.t.
Broadcasting to excess	Quartz sand (16 - 30 U.S sieve)	0.8 – 1.2 lb/ft²	
Top Coat	Sikalastic®-518 Pronto Topcoat	57 ft²/US gal.	~ 28 mil w.f.t.

Notes:

- *For estimating purposes: ~ 1 Gallon of Wearing Course slurry mixture will require ~ 0.6 Gallon Sikalastic®-532 Pronto mixed with ~ 10 lbs. of Sikalastic®-1 Pronto Filler
- Sikafloor Pronto Hardener is required for each material in Sikalastic® Pronto RB-5700 PUMA system, refer to indivdual product data sheets for exact dosing recomendation.

APPLICATION ON RAMPS AND INCLINES:
Sikalastic® Pronto RB-5700 PUMA System (~ 171 mils)

		Yield	Thickness
Primer	Sikalastic®-511 Pronto Primer	100 ft²/US gal.	~ 16 mil w.f.t.
Optional: Levelling Mortar (surface roughness up to 3 mm)	Sikalastic®-511 Pronto Primer + Sikalastic®-1 Pronto Filler (mixed at 1:2, by weight)	13 – 40 ft²/US gal.	40 – 120 mil d.f.t.
Detail Coat (s)	Sikalastic®-532 Pronto	53 ft²/US gal.	~ 30 mil w.f.t.
Base Coat	Sikalastic®-532 Pronto + 2 % Sika Extender T by weight	25 ft²/US gal.	~ 64 mil d.f.t.
First Wearing Course	Slurry Mixture: Sikalastic®-532 Pronto (filled 1:2 by weight with Sikalastic®-1 Pronto Filler).	53 ft²/US gal.*	~ 30 mil d.f.t.
Partial sand broadcast	Quartz sand (0.7 – 1.2 mm, 16 - 30 U.S sieve)	0.2 – 0.4 lb/ft²	
Second Wearing Course	Slurry Mixture: Sikalastic®-532 Pronto (filled 1:2 by weight with Sikalastic®-1 Pronto Filler).	53 ft²/US gal.*	~ 30 mil d.f.t.
Sand broadcast to excess	Quartz sand (0.7 – 1.2 mm, 16 - 30 U.S sieve)	0.6 – 0.8 lb/ft²	
Top Coat(s)*	Sikalastic®-518 Pronto Topcoat	50 ft²/US gal.	32 mil d.f.t.

Notes:
- *For estimating purposes: ~ 1 Gallon of Wearing Course slurry mixture will require ~ 0.6 Gallon Sikalastic®-532 Pronto mixed with ~ 10 lbs. of Sikalastic®-1 Pronto Filler.
- Sikafloor Pronto Hardener is required for each material in Sikalastic® Pronto RB-5700 PUMA system, refer to indivdual product data sheets for exact dosing recomendations
- For high inclinations of 15–20 %, the use of Sika® Extender T in the wearing courses might be considered

Product Temperature	Refer to the individual product data sheets
Ambient Air Temperature	32 °F min. / 86 °F max.
Relative Air Humidity	~ 80 % RH max
Dew Point	Beware of condensation! The substrate and uncured floor must be at least 5 °F (3 °C) above dew point to reduce the risk of condensation or blooming on the surface finish.
Substrate Temperature	32 °F min. / 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 / Recoat Times

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

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

Before overcoating Sikalastic®-532 Pronto allow:

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

Applied Product Ready for Use

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

BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

AVAILABILITY/WARRANTY

- Sikalastic®-511 Pronto Primer product data sheet
- Sikalastic®-532 Pronto product data sheet
- Sikalastic®-518 Pronto Topcoat product data sheet

LIMITATIONS

- See Sikalastic® Pronto Primer data sheet for substrate preparation requirements.
- Beware of condensation! The substrate and uncured floor must be at least 5 °F (3 °C) 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 adequate 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 color 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_2 and H_2O water vapour, which may adversely affect the finish. For heating, consider using only electric powered warm air blower systems.

ENVIRONMENTAL, HEALTH AND 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

Clean all tools and application equipment with appropriate solvent immediately after use. Hardened and/or cured material can only be removed mechanically.

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

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

Sika Corporation
201 Polito Avenue
Lyndhurst, NJ 07071
Phone: +1-800-933-7452
Fax: +1-201-933-6225
usa.sika.com