BUILDING TRUST

PRODUCT DATA SHEET

Sikalastic®-532 Pronto

TWO-COMPONENT ELASTOMERIC PUMA BINDER FOR TRAFFIC DECK APPLICATIONS

PRODUCT DESCRIPTION

Sikalastic®-532 Pronto is a fast curing, elastomeric self-levelling binder based on polyurethane-modified reactive acrylic resins (PUMA), as part of the Sikalastic® Pronto RB-5700 PUMA system.

USES

Sikalastic®-532 Pronto may only be used by experienced professionals.

Sikalastic®-532 Pronto functions as both a neat crack-bridging basecoat membrane and as a flexible binder in the wear course of the Sikalastic® Pronto RB-5700 PUMA system for multi-storey and underground carparks, intermediate and exposed decks.

CHARACTERISTICS / ADVANTAGES

- Low temperature crack bridging per ASTM C1305/C957 (-14.8 °F/ -26 °C)
- Very fast curing, even at low temperatures
- High elongation at break, even at low temperatures
- Good mechanical and chemical resistance
- Elastomeric
- Solvent-free

APPROVALS / STANDARDS

- Passes low-temperature crack bridging per ASTM C1305/C957 (-14.8 °F/ -26 °C)
- Crack-bridging test EN 1062-7
- Fire testing EN 13501-1

PRODUCT INFORMATION

Chemical Base	PU-modified poly-methyl-methacrylate based resin	
Packaging	Part A: Sikalastic®-532 Pronto	5 gal. pail
	Part B: Sikafloor® Pronto Hardener	55 lb bag (sold separately, see Mixing Ratio chart below for dosage)
	Sikalastic®-1 Pronto Filler	40 lb bag (sold separately)
Shelf Life	From date of production in original, unopened containers:	
	Part A: Sikalastic®-532 Pronto	12 months
	Part B: Sikafloor® Pronto Hardener	12 months
	Sikalastic®-1 Pronto Filler	Unlimited
Storage Conditions	Sikalastic®-532 Pronto and Sikafloor® Pronto Hardener: Stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between 41 - 86 °F. Materials must be protected from heat, direct sunlight, moisture and impact. The materials should be stored between	

65 - 75 °F for 24 hours prior to use for optimum handling properties. Do not store near open flame or an ignition source.

Appearance / Color

Part A: Sikalastic®-532 Pronto	Liquid / Gray
Part B: Sikafloor® Pronto Hardener	Powder / White
Sikalastic®-1 Pronto Filler	Fine aggregates / White

Density

~ 0.99 kg/L (23 °C / 73 °F)

Solid content by mass

~ 100 %

Solid content by volume

~ 100 %

TECHNICAL INFORMATION

Elongation at Break

Unfilled Resin	~ 220 % (14 days at 73 °F / 23 °C)	(ISO 527)
Unfilled Resin	~ 165 % (14 days at -4 °F / -20 °C)	
Resin filled with Sikalastic®-1 Pronto Filler (1:0.3)	~ 157 % (14 days at 73 °F / 23 °C)	

Crack Bridging Ability

Passes ASTM C1305 (in accordance with ASTM C957)

Tensile Adhesion Strength

> 1.5 MPa (failure in concrete)

Thermal Resistance

Exposure*	Dry Heat
Permanent	104 °F (40 °C)
Short-term max. 2 days	122 °F (50 °C)
Short-term max. 1 hour	140 °F (60 °C)

Short-term heat* up to 176 °F (80 °C) where exposure is only occasional (steam cleaning etc.)
*No simultaneous chemical and mechanical exposure and only in combination with Sikalastic®-511 / -518 Pronto as a broadcast system with approx. 120 - 160 mm thickness.

SYSTEM INFORMATION

Systems

Please refer to the system Data Sheets of:
- Sikalastic® Pronto RB-5700 PUMA

APPLICATION INFORMATION

Mixing Ratio

All components must be measured by weight.
Amount of Sikafloor® Pronto Hardener required to be added to 2.50 US gal. or 20.63 lb (9.36 kg) of Sikalastic®-532 Pronto is dependent on the ambient and substrate temperature.

Temperature	Hardener	(% Hardener by weight)
32 °F (0 °C)	19.7 oz (561 g)	6.0 %
41 °F (5 °C)	19.7 oz (561 g)	6.0 %
50 °F (10 °C)	13.1 oz (374 g)	4.0 %
59 °F (15 °C)	9.9 oz (281 g)	3.0 %
68 °F (20 °C)	6.5 oz (187 g)	2.0 %
77 °F (25 °C)	5.0 oz (141 g)	1.5 %
86 °F (30 °C)	3.3 oz (94 g)	1.0 %

Coverage

As Neat Base Coat Membrane: ~25 ft²/gal. at 64 (d.f.t / w.f.t)

As Wear Course Layer (Resin filled at 1:2 ratio, by weight with Sikalastic®-1 Pronto Filler):
Horizontal System: ~19 ft²/gal. at 83 mil (d.f.t/w.f.t.)
Ramp/Incline System: ~54 ft²/gal. at 30 mil (d.f.t/w.f.t)

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage, etc. For detailed info, refer to the System data sheet Sikalastic® Pronto RB-5700 PUMA.

Ambient Air Temperature

32 °F min. / 86 °F max.

Relative Air Humidity

~ 80 % R.H. 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 floor finish.

Substrate Temperature

32 °F min. / 86 °F max

Substrate Moisture Content

≤4 % pbw moisture content. Test method: Tramex meter.

Pot Life

Temerature	Time
32 °F (0 °C)	~ 20 minutes
41 °F (5 °C)	~ 20 minutes
50 °F (10 °C)	~ 15 minutes
59 °F (15 °C)	~ 15 minutes
68 °F (20 °C)	~ 15 minutes
77 °F (25 °C)	~ 12 minutes
86 °F (30 °C)	~ 10 minutes

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

Cure Time

Before overcoating Sikalastic®-532 Pronto allow:

Temperature	Time
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

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

Applied Product Ready for Use

Temperature	Foot Traffic	Full Cure
32 °F (0 °C)	~ 80 minutes	~3 hours
41 °F (5 °C)	~ 80 minutes	~3 hours
50 °F (10 °C)	~ 60 minutes	~3 hours
59 °F (15 °C)	~ 50 minutes	~3 hours
68 °F (20 °C)	~ 45 minutes	~2 hours
77 °F (25 °C)	~ 35 minutes	~2 hours
86 °F (30 °C)	~ 30 minutes	~2 hours

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

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® Pronto RB-5700 PUMA system data sheet
- Sikalastic®-511 Pronto Primer product data sheet
- Sikalastic®-518 Pronto Topcoat product data sheet

LIMITATIONS

- Sikalastic®-532 Pronto may only be used by experienced professionals.
- Do not use Sikalastic®-532 Pronto on substrates with rising moisture.
- Beware of condensation!The substrate 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®-532 Pronto must be protected from damp, condensation and water for at least one (1)hour.
- Use spark proof mixing equipment for internal applications.
- Use a Jiffy-type mixing paddle to ensure adequate dispersion when blending Sika Extender T into Sikalastic-532 Pronto.
- Always ensure good ventilation when using Sikalastic®-532 Pronto 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 (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 the 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.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- 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

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

For concrete substrate preparation requirements, see product data sheet for Sikalastic®-511 Pronto Primer. Honor moisture and dew point guidelines, as well as minimum recoat time of previously applied Sikalastic®-Pronto layer. Previously applied Sikalastic®-Pronto layer must be thoroughly clean.

OPTIONAL: LEVELING

Prior to the application of the Base Coat layer, rough surfaces need to be leveled first. Use Sikalastic®-511 Pronto Primer at 1:2 ratio, by weight with Sikalastic®-1 Pronto Filler as a leveling mortar (see System Data Sheet). Apply by squeegee / trowel to the required thickness up to 120 mils. Allow to cure prior to proceding with application.

MIXING

Tools

For indoor work, spark-free mixing equipment must be used (explosion-proof)! Sikalastic®-532 Pronto must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment. Use Jiffy-type mixer to ensure adequate dispersion when blending Sika Extender T into Sikalastic-532 Pronto for inclinations and vertical applications.
Over mixing must be avoided to minimize air entrainment. For ease of handling, 5 US gal. units should be split (2 x 2.5 gal.) (refer to Mixing table). Always measure out components by weight.

MIXING: Base Coat Layer

Mix Sikalastic®-532 Pronto thoroughly, for at least one (1) minute, then add the hardener in the correct quantity and mix for one (1) additional minute.

MIXING: Broadcast Wear Course:

Mix Sikalastic®-532 Pronto thoroughly at a 1:2 ratio, by weight, with Sikalastic®-1 Pronto Filler for at least one (1) minute, then add the hardener in the correct quantity and mix for one (1) additional minute. Hardener dosage is based on Sikalastic®-532 Pronto quantity prior to addition of Sikalastic®-1 Pronto Filler.

For estimating purposes: ~ 1 gal. of slurry mixture will require ~ 0.6 gal. Sikalastic®-532 Pronto mixed with ~ 10 lbs. Sikalastic®-1 Pronto Filler.

APPLICATION

Prior to application, confirm substrate moisture content, relative air humidity and dew point. For exterior applications, apply when temperatures are falling. If applied during rising temperatures “pin holing” may occur from rising air.

DETAILING

Non-structural cracks up to 1/16 inch – Apply a detail coat of a Sikalastic®-532 Pronto at 30 mils, 6” wide, centered over the crack. Allow to become tack free before overcoating.

Cracks and joints over 1/16 up to 1 inch – Rout and seal with Sikaflex® sealant and allow to cure. Apply a detail coat of Sikalastic®-532 Pronto at 30 mils, 6” wide, centered over the crack. Allow to become tack free before over coating.

Joints over 1 inch – Should be treated as expansion joints and brought up through the Sikalastic® Pronto RB-5700 PUMA System and sealed with Sika sealant (see Sealant Guide).

NOTE: Details on vertical applications may require the addition of Sika® Extender T (0.5%-1% by weight) to the Sikalastic®-532 Pronto resin.

BASE COAT LAYER APPLICATION

Sikalastic®-532 Pronto is poured, spread evenly by means of a serrated trowel or V-notched squeegee. Roll immediately in one direction with a spiked roller to ensure even thickness and to remove entrapped air.

BROADCAST WEAR LAYER APPLICATION

Apply wear layer mix (Sikalastic®-532 Pronto mixed 1:2 by weight with Sikalastic®-1 Pronto Filler) by pouring and spreading evenly by means of a serrated trowel or V-notched squeegee. Roll immediately in one direction with a spiked roller to ensure even thickness and to remove entrapped air. Immediately afterwards, broadcast with quartz sand.

Note: Broadcast quartz sand in three (3) steps, begin with light application, building up to excess in order to ensure an even distribution of quartz sand and to avoid misplacing of the material. The material cures very quickly and therefore application must be carried out steadily and “wet on wet” in order to achieve joint-free floors.

CLEANING OF TOOLS

Remove liquid coating immediately with dry cloth, locally approved solvent can be used. Once cured, coating can only be removed by mechanical means.

OTHER RESTRICTIONS

See Legal Disclaimer.

LEGAL DISCLAIMER

The Information, and in particular, the recommenda-tions relating to the application and end-use of Sika products, are given in good faith based on Sika’s cur-rent knowledge and experience of the products when properly stored, handled and applied under normal conditions, within their shelf life. In practice, the differ-ences in materials, substrates and actual site condi-tions are such that no warranty in respect of mer-chantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship what-soever, can be inferred either from this information, or from any recommendations, or from any other ad-vice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The propri-etary rights of third parties must be observed. All or-ders are accepted subject to our current terms of sale and delivery. Users must always refer to the most re-cent 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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