



## 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.

#### WHERE TO USE

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 car parks, intermediate and exposed decks.

#### CHARACTERISTICS / ADVANTAGES

- Low temperature crack bridging (1.6 and 3.2 mm) per ASTM C1305/C957 (-26 °C / -14.8 °F)
- Very fast curing, even at low temperatures
- High elongation at break, even at low temperatures
- Good mechanical and chemical resistance
- Elastomeric
- Solvent-free

#### APPROVALS / CERTIFICATES

- Passes low temperature crack bridging (1.6 and 3.2 mm) per ASTM C1305/C957 (-26 °C)
- Crack-bridging test EN 1062-7
- Fire testing EN 13501-1

#### PRODUCT INFORMATION

<b>CSC MasterFormat®</b>	07 18 00 TRAFFIC COATINGS	
<b>Composition / Manufacturing</b>	PU-modified poly-methyl-methacrylate based resin	
<b>Packaging</b>	Part A: Sikalastic®-532 Pronto	18.9 L (5 US gal.) pail
	Part B: Sikafloor® Pronto Hardener	25 kg (55 lb) bag (sold separately, see Mixing Ratio chart below for dosage)
	Sikalastic®-1 Pronto Filler	18 kg (39 lb) bag
<b>Shelf Life</b>	From date of production:	
	Part A: Sikalastic®-532 Pronto	12 months
	Part B: Sikafloor® Pronto Hardener	12 months
	Sikalastic®-1 Pronto Filler	Unlimited
<b>Storage Conditions</b>	Sikalastic®-532 Pronto and Sikafloor® Pronto Hardener: Stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between 5 and 30 °C (41 and 86 °F). Materials must be	

protected from heat, direct sunlight, moisture and impact. The materials should be stored between 18 to 24 °C (65 to 75 °F) for 24 hours prior to use for optimum handling properties. Do not store near open flame or an ignition source.

<b>Appearance / Colour</b>	Part A: Sikalastic®-532 Pronto	Liquid / Gray
	Part B: Sikafloor® Pronto Hardener	Powder / White
	Sikalastic®-1 Pronto Filler	Fine aggregates / White
<b>Density</b>	~ 0.99 kg/L (23 °C / 73 °F)	
<b>Solid content by weight</b>	~ 100 %	
<b>Solid content by volume</b>	~ 100 %	

## TECHNICAL INFORMATION

<b>Elongation at Break</b>	Unfilled Resin	~ 220 % (14 days at 23 °C / 73 °F)	(ISO 527)
	Unfilled Resin	~ 165 % (14 days at -20 °C / -4 °F)	
	Resin filled with Sikalastic®-1 Pronto Filler (1:0.3)	~ 157 % (14 days at 23 °C / 73 °F)	
<b>Crack Bridging Ability</b>	Passes ASTM C1305 for both 1.6 and 3.2 mm crack width (in accordance with ASTM C957)		
<b>Pull-Off Strength</b>	> 1.5 MPa (failure in concrete)		
<b>Temperature Resistance</b>	<b>Exposure*</b>	<b>Dry Heat</b>	
	Permanent	40 °C (104 °F)	
	Short-term max. 2 days	50 °C (122 °F)	
	Short-term max. 1 hour	60 °C (140 °F)	
	Short-term heat* up to 80 °C (176 °F) 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. 3 - 4 mm thickness.		

## SYSTEMS

<b>Systems</b>	Please refer to the system Data Sheets of: ▪ Sikalastic® Pronto RB-5700 PUMA
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## APPLICATION INFORMATION

<b>Mixing Ratio</b>	Amount of Sikafloor® Pronto Hardener required to be added to 9.5 L (2.50 US gal.) or 9.36 kg (20.63 lb) of Sikalastic®-532 Pronto is dependent on the ambient and substrate temperature.		
	<b>Temperature</b>	<b>Hardener</b>	<b>(% part by weight)</b>
	0 °C (32 °F)	561 g (19.7 oz)	6.0 %
	5 °C (41 °F)	561 g (19.7 oz)	6.0 %
	10 °C (50 °F)	374 g (13.1 oz)	4.0 %
	15 °C (59 °F)	281 g (9.9 oz)	3.0 %
	20 °C (68 °F)	187 g (6.5 oz)	2.0 %
	25 °C (77 °F)	141 g (5.0 oz)	1.5 %
	30 °C (86 °F)	94 g (3.3 oz)	1.0 %

**Note:** The hardener powder can also be ordered under the product name Sikadur® VPC Part B (280 g / 9.87 oz bottle)

## Consumption

**As Neat Base Coat Membrane:** ~ 0.5 - 0.6 m<sup>2</sup>/L (20 - 25 ft<sup>2</sup>/ US gal.) at 64 - 80 mil (d.f.t / w.f.t) depending on the system applied.

**As Wear Course Layer (Resin filled at 1:2 ratio, by weight with Sikalastic®-1 Pronto Filler):** ~ 0.5 - 1.3 m<sup>2</sup>/L (19 - 54 ft<sup>2</sup>/ US gal.) at 30 - 83 mil d.f.t/w.f.t.) depending on the system applied.

*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

0 °C (32 °F) min. / 30 °C (86 °F) max.

## Relative Air Humidity

~ 80 % R.H. 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 floor finish.

## Substrate Temperature

0 °C (32 °F) min. / 30 °C (86 °F) max

## Substrate Moisture Content

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

## Pot Life

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

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

## Curing Time

Before overcoating Sikalastic®-532 Pronto allow:

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

## 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® 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 3 °C (5 °F) 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<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.

## 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

## APPLICATION INSTRUCTIONS

### SURFACE PREPARATION

For concrete substrate preparation requirements, see product data sheet for Sikalastic®-511 Pronto Primer. Honour 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.

## MIXING

### 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, 18.9 L (5 US gal.) units may be split (2 x 9.5 L / 2.5 US gal.) (refer to Mixing table). Always measure out components.

### Neat 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.

### Broadcast Wear Course:

Mix Sikalastic®-532 Pronto thoroughly 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 L of slurry mixture will require ~ 0.6 L (0.6 kg) Sikalastic®-532 Pronto mixed with ~ 1.2 kg 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.

### Levelling

Rough surfaces need to be levelled first. Therefore use e.g. 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.

### Neat Base Coat Layer

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 Course

Sikalastic®-532 Pronto mixed at 1:2 ratio, by weight with Sikalastic®-1 Pronto Filler 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. 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.

## CLEAN UP

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

## 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 shelf life. 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)

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### Other locations

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### Product Data Sheet

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