

PRODUCT DATA SHEET

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TRAFFIC COATINGS

Sikalastic®-511 Pronto Primer

TWO-PART PRIMER BASED ON REACTIVE ACRYLIC RESINS

Description	Sikalastic®-511 Pronto Primer is a two-part, medium viscosity, fast-curing primer based on reactive acrylic resins, for use with Sikalastic® Pronto systems.
Where to Use	<ul style="list-style-type: none"> Fast-curing, medium viscosity primer to achieve pore-free cementitious substrate.
Advantages	<ul style="list-style-type: none"> Fast-curing, even at low temperatures Solvent-free, no solvent evaporation or shrinkage Can be blended with fillers to create a levelling layer
Approvals	<ul style="list-style-type: none"> Certificate of conformity, 40893 U15, Isega Germany, October 2015 Coating for surface protection of concrete according to EN 1504-2:2004, Declaration of Performance 02 08 01 05 009 0000001 1131, certified by notified factory production control certification body 0921, certificate of conformity of the factory production control 1119 Synthetic resin screed material according to EN13813:2002, Declaration of Performance 02 08 01 05 009 0000001 1131

PRODUCT INFORMATION

Chemical Base	Reactive Acrylic Resin		
Packaging	Part A	Sikalastic®-511 Pronto Primer	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)
Appearance / Colour	Part A	Liquid / Transparent	
	Part B	Powder / White	
Shelf Life	Part A	12 months	
	Part B	6 months	
Storage Conditions	Sikalastic®-511 Pronto Primer 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.		
Density	~ 0.98 kg/L (23 °C / 73 °F)		
Solid content (by weight)	~ 100 %		
Solid content (by volume)	~ 100 %		

TECHNICAL INFORMATION

Thermal Resistance	Exposure*	Dry heat
	Permanent	50 °C (122 °F)
	Short term max. 2 days	60 °C (140 °F)
	Short term max. 1 hour	80 °C (176 °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®-532 / -518 Pronto as a broadcast system with approx. 3 - 4 mm thickness.		

SYSTEM INFORMATION

Systems	Priming*
Primer	1 x Sikalastic®-511 Pronto Primer for low /medium porosity concrete 2 x Sikalastic®-511 Pronto Primer for high porosity concrete

APPLICATION INFORMATION

Mixing Ratio	The amount of Sikafloor® Pronto Hardener required to be added to 9.5 L (2.50 US gal.) or 9.31 kg (20.52 lb) of Sikalastic®-511 Pronto Primer is dependent on the ambient and substrate temperature.	
	Temperature	Sikafloor® Pronto Hardener (% parts by weight)
	0 °C (32 °F)	652 g (22.9 oz) - (7 %)
	5 °C (41 °F)	559 g (19.7 oz) - (6 %)
	10 °C (50 °F)	372 g (13.1 oz) - (4 %)
	20 °C (68 °F)	279 g (9.8 oz) - (3 %)
	30 °C (86 °F)	186 g (6.5 oz) - (2 %)
	Note: The hardener powder can also be ordered under the product name Sikadur® VPC Part B (280 g / 9.87 oz bottle)	
Consumption	Coating System	Product
	Primer	1-2 x Sikalastic®-511 Pronto Primer
		Consumption
		~ 2.5 m ² /L (100 ft ² /US gal.) at ~ 16 mil d.ft./w.ft. (0.40 mm)
	These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage, etc.	

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	The substrate moisture content must not exceed 4 % pbw measured by Tramex.			
Pot Life	Substrate temperature	Hardening powder (% parts by weight)	Time	
	0 °C (32 °F)	7 %	15 minutes	
	5 °C (41 °F)	6 %	15 minutes	
	10 °C (50 °F)	4 %	15 minutes	
	20 °C (68 °F)	3 %	12 minutes	
	30 °C (86 °F)	2 %	12 minutes	
Curing Time	The quantity of hardening powder is always related to the quantity of resin.			
	Before applying Sikalastic®-532 Pronto on Sikalastic®- 511 Pronto Primer allow:			
	Substrate temperature	Hardening powder (% parts by weight)	Minimum	Maximum
	0 °C (32 °F)	7 %	60 minutes	*
	5 °C (41 °F)	6 %	50 minutes	*
	10 °C (50 °F)	4 %	40 minutes	*
	20 °C (68 °F)	3 %	35 minutes	*
30 °C (86 °F)	2 %	30 minutes	*	
*No time limit, the Sikalastic®-Pronto materials can be applied on each other after thorough cleaning.				
Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.				

HOW TO USE

Surface Preparation

The concrete surface must be clean and sound. Remove any dust, laitance, grease, oil, dirt, curing agents, impregnations, wax, foreign matter, coatings and bond inhibiting material from the surface by appropriate mechanical means, in order to achieve a profile equivalent to ICRI / CSP 3 - 4 for decks and ICRI / CSP 1 - 3 for walls. The compressive strength of the concrete substrate should be at least 25 MPa (3625 psi) at 28 days and at least 1.5 MPa (218 psi) in tension at the time of application of Sikalastic®-511 Pronto Primer.

Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed.

Repairs to the substrate, filling of blowholes / voids and surface levelling must be carried out using appropriate products from the Sika® range of materials.

Priming

Apply Sikalastic®-511 Pronto Primer making sure that a continuous; pore-free coat covers the substrate, i.e. ~ 2.5 m²/L (100 ft²/US gal.) at 16 mil d.f.t./w.f.t..

Sikalastic®-511 Pronto Primer has to be applied evenly without leaving puddles by means of a paint roller or brush. If squeegee is used, the surface must always be back rolled afterwards. Matte and heavily absorbent patches must be reprimed 'wet-on-wet' before hardening, until the pores are closed up. The freshly applied priming coat can be blinded lightly with 0.7 - 1.2 mm (16 - 24 US sieve), consumption approx. 0.2 - 0.5 kg/m².

After priming, an optional levelling coat can be used by combining Sikalastic®-511 Pronto Primer and Sikalastic®-1 Pronto Filler (mix at 1:2 ratio, by weight), see system data sheet for Sikalastic® Pronto RB-5700 PUMA for details.

Mixing

Mix part A thoroughly, then add the hardener in the correct quantity and mix for a further one (1) minute. Over mixing must be avoided in order 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.

Mixing Tools

Important: For indoor work, spark-free mixing equipment must be used (explosion-proof)! Sikalastic®-511 Pronto Primer must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.

Application

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

Clean Up

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

Limitations

- Sikalastic®-511 Pronto Primer may only be used by experienced professionals.
- Do not use Sikalastic®-511 Pronto Primer on substrates with rising moisture.
- **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®-511 Pronto Primer must be protected from damp, condensation and water for at least one (1) hour.
- Use spark proof mixing equipment for indoor / confined applications applications.
- Always ensure good ventilation when using Sikalastic®-511 Pronto Primer 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 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.
- Fossil fuel heaters can produce large quantities of both CO₂ and H₂O water vapour, which may adversely affect the finish. For heating use 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

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