BUILDING TRUST

PRODUCT DATA SHEET

Sikalastic®-511 Pronto Primer

TWO-PART PRIMER BASED ON REACTIVE ACRYLIC RESINS

PRODUCT 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.

USES

Sikalastic®-511 Pronto Primer may only be used by experienced professionals.

Fast-curing, medium viscosity primer to achieve pore-free cementitious substrate.

CHARACTERISTICS / ADVANTAGES

- Fast-curing, even at low temperatures
- Solvent-free, no solvent evaporation or shrinkage
- Can be blended with fillers to create a levelling layer

APPROVALS / STANDARDS

- 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	5 US gal. (18.9 L) pail
	Part B	Sikafloor® Pronto Hardener	55 lb (25 kg) bag (sold separately, see Mixing Ratio chart below for dosage)
Appearance / Color	Part A	Sikalastic®-511 Pronto Primer	Liquid / Transparent
	Part B	Sikafloor® Pronto Hardener	Powder / White
Shelf Life	From Production date in original, unopened containers:		

	Part A	Sikalastic®-511 Pronto Primer	12 months
	Part B	Sikafloor® Pronto Hardener	12 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 41 and 86 °F (5 and 30 °C). Materials must be protected from heat, direct sunlight, moisture and impact. The materials should be stored between 65 to 75 °F (18 to 24 °C) 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 (73 °F / 23 °C)
Solid content by mass	~ 100 %
Solid content by volume	~ 100 %

TECHNICAL INFORMATION

Thermal Resistance

Exposure*	Dry Heat
Permanent	122 °F (50 °C)
Short term max. 2 days	140 °F (60 °C)
Short term max. 1 hour	176 °F (80 °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®-532 / -518 Pronto as a broadcast system with approx. 171- 191 mil thickness. See System Data Sheet.*

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 2.50 US gal. (9.5 L) or 20.52 lb (9.31 kg) of Sikalastic®-511 Pronto Primer is dependent on the ambient and substrate temperature.

Temperature	Sikafloor® Pronto Hardener (% parts by weight)
32 °F (0 °C)	22.9 oz (652 g) - (7 %)
41 °F (5 °C)	19.7 oz (559 g) - (6 %)
50 °F (10 °C)	13.1 oz (372 g) - (4 %)
68 °F (20 °C)	9.8 oz (279 g) - (3 %)
86 °F (30 °C)	6.5 oz (186 g) - (2 %)

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

Coverage

Coating System	Product	Consumption
Primer	1-2 x Sikalastic®-511 Pronto Primer	~100 ft²/US gal. (2.5 m² /L) at ~ 16 mil d.f.t./w.f.t. (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

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

Substrate Moisture Content

The substrate moisture content must not exceed 4 % pbw measured by Tramex.

Pot Life

Temperature	Hardening Powder (% parts by weight)	Time
32 °F (0 °C)	7%	15 minutes
41 °F (5 °C)	6%	15 minutes
50 °F (10 °C)	4%	15 minutes
68 °F (20 °C)	3%	12 minutes
86 °F (30 °C)	2%	12 minutes

The quantity of hardening powder is always related to the quantity of resin.

Cure Time

Before applying Sikalastic®-532 Pronto on Sikalastic®- 511 Pronto Primer allow:

Substrate Temperature	Hardening powder (% parts by weight)	Minumum	Maximum
32 °F (0 °C)	7%	60 minutes	*
41 °F (5 °C)	6%	50 minutes	*
50 °F (10 °C)	4%	40 minutes	*
68 °F (20 °C)	3%	35 minutes	*
86 °F (30 °C)	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.

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

LIMITATIONS

- Do not use Sikalastic®-511 Pronto Primer on substrates with rising moisture.
- 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®-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 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

- 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.

MIXING

Pre-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, 5 US gal. (18.9 L) 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 mixer (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.
Priming:
Apply Sikalastic®-511 Pronto Primer making sure that a continuous; pore-free coat covers the substrate, i.e. ~ 100 ft²/US gal. (2.5 m²/L) 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 16 - 24 US sieve (0.7 - 1.2 mm), 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.

CLEANING OF TOOLS

Clean all tools with Sika® Urethane Cleaner and Thinner 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

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