Product Data Sheet Edition 15/01/2009 Identification no: 01 08 01 05 003 0 000004 Sikafloor®-16 Pronto

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CE EN 13813 EN 1504-2 Sikafloor[®]-16 Pronto

2-part seal coat based on reactive acrylic resins

Product Description	Sikafloor [®] -16 Pronto is a two-part, fast curing seal coat based on reactive acrylic resins for the Sikafloor [®] -Pronto Modular System. Sikafloor [®] -16 Pronto consists of: Part A: Sikafloor [®] -16 Pronto resin Part B: Sika [®] -Pronto Hardener					
	Sika [®] -Pronto Pigment is used to colour Sikafloor [®] -16 Pronto where required.					
Uses	 Seal coat for broadcast layers of the Sikafloor[®]-Pronto Modular System (dry or exterior areas) Seal coat for broadcast screeds prepared of e.g. Sikafloor[®]-81 EpoCem or Sikafloor[®]-261 if broadcast to excess (dry or exterior areas) Particularly suitable for food industry use For fast overcoating of ramps in multi-storey and underground car-parks 					
Characteristics / Advantages	 Very fast curing, even at low temperatures Good mechanical and chemical resistance Very good UV-resistance, also for exterior areas Solvent-free Part of a complete modular system 					
Test						
Approval / Standards	Conforms to the requirements of DIN 51130 (Skid / slip resistance).					
Product Data						
Form						
Appearance / Colours	Part A: Sikafloor [®] -16 Pronto: transparent, bluish liquid Part B: Sika [®] -Pronto Hardener: white, powder					
	Sika [®] -Pronto Pigment: approx. 7032 other colours upon request.					
Packaging	Part A: Sikafloor [®] -16 Pronto: 25 kg, 200 kg Part B: Sika [®] -Pronto Hardener: 0.96 kg bags Sika [®] -Pronto Pigment: 5 kg (10 x 0.5 kg bags)					



Storage

Storage					
Storage Conditions / Shelf Life	From date of production if stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5 $^\circ$ and +30 $^\circ$:				
	Part A: Sikafloor [®] -16 Pronto: 12 mo Part B: Sika [®] -Pronto Hardener: 6 mor Sika [®] -Pronto Pigment 2 yea	nths			
	Sikafloor [®] -Pronto Hardener must be prot and impact.	ected from heat, direct sunlight, moisture			
Technical Data					
Chemical Base	Reactive acrylic resins				
Density	~ 0.99 kg/l (at +23 °C)	(DIN 51 757)			
Solid Content	~ 100% (by volume) / ~ 100% (by weight)			
Resistance					
Chemical Resistance	Resistant to many chemicals. Please ask	for a detailed chemical resistance table.			
Thermal Resistance					
	Exposure*	Dry heat			
	Permanent	+50 °C			
	Short-term max. 1h	+80 <i>°</i> C			
	* No simultaneous chemical and mechanical e Sikafloor [®] -14 Pronto as a broadcast system v	exposure and only in combination with with approx. 3 - 4 mm thickness.			
System Information					
System Structure	Sealing of broadcast screed:				
	Broadcast system approx. 3 - 4 mm for of Primer:1 x Sikafloor®-13 Pront Base coat:1 x Sikafloor®-14 Pront Broadcasting:Broadcasting:00000000000000000000000000000000000	o o nm or 0.7 - 1.2 mm), 0.6 - 1.2 mm) or ast to excess onto			
	Also suitable for sealing of e.g. Sikafloor [®] -261 and Sikafloor [®] -81 EpoCem if fully broadcast.				

	Coating System	Product	I		Consumption	
	Transparent seal coat onto Sikafloor-14 Pronto broadcast systems for dry areas	Sikafloo	or [®] -16 Pronto		~ 0.5 - 0.8 kg/m ² (total max. 0.8 k	
	Coloured seal coat onto Sikafloor-14 Pronto broadcast systems for dry areas	Sikafloo Sika [®] -P	or [®] -16 Pronto (§ ronto Pigment	9 pbw) + (1 pbw)	~ 0.5 - 0.8 kg/m² (total max. 0.8 kg	
	These figures are theoretical and do not allow for any additional material due surface porosity, surface profile, variations in level or wastage etc.					
Substrate Quality	The substrate must be clean, dry and free of all contaminants such as dirt, grease, coatings and surface treatments, etc.					irt, oil,
	Pull-off strength shall be	e not less t	han 1.5 N/mr	n²		
	If in doubt, apply a test	area first.				
Substrate Preparation	All dust, loose and friab before application of the					surfaces
Application Conditions / Limitations						
Substrate Temperature	-5℃ min. / +30℃ max.					
Ambient Temperature	-5℃ min. / +30℃ max.					
Relative Air Humidity	~ 80% r.h. max.					
Dew Point	Beware of condensation!					
	The substrate and uncured floor must be at least 3 °C above dew point to reduce the risk of condensation or blooming on the floor finish.					
Application Instructions						
Instructions	Part A : Pigment = 9 : 1	(by weight	t)			
Instructions	Part A : Pigment = 9 : 1 The amount of Hardene temperature (see table	r required		t on the ar	mbient- and sub	ostrate
Instructions	The amount of Hardene	r required	is dependent	on the ar		ostrate
Instructions	The amount of Hardene temperature (see table	r required	is dependent			ostrate +30℃
Application Instructions Mixing	The amount of Hardene temperature (see table Sikafloor®-16 Pronto	r required below).	is dependent Sika	-Pronto Ha	ardener	1

Mixing Time	Mix part A thoroughly then add the Hardener in the correct quantity and mix for a further 1 minute.						
	Pigmented: Mix part A thoroughly. Premix the required amount of Sika-Pronto Pigment with the same quantity of part A by dissolver. Mix part A and the obtained pigment powder (overall content of Sika-Pronto Pigment in the mixture = 10%) for at least 3 minutes. Then add the Hardener in the correct quantity and mix for a further 1 minute.						
	Over mixing must be avoided to minimise air entrainment.						
	For ease of handling, 25 kg units may be split (refer to Mixing table). Always weigh out components.						
Mixing Tools	For indoor work,	For indoor work, spark-free mixing equipment must be used (explosion-proof)!					
		Sikafloor [®] -16 Pronto must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.					
	For the preparation	on of the pig	gment	powder,	a dissolver mu	st be used.	
Application Method /	Prior to application confirm r.h. and dew point.						
Tools	Seal coat: Immediately after mixing, pour the Sikafloor [®] -16 Pronto onto the substrate and spread evenly by means of a "non-fuzzing" short-pile nylon roller or squeegee.						
	A seamless finish can be achieved if a 'wet' edge is maintained during					application.	
Cleaning of Tools	Clean all tools and application equipment with Thinner C immediately after use. Hardened and/or cured material can only be removed mechanically.						
Potlife							
	Γ	-5 ℃		0°C	+10 <i>°</i> C	+20 °C	+30 ℃
	Time (minutes)	~ 25		~ 17	~ 15	~ 15	~ 8
	<u> </u>						
Waiting Time / Before applying Sikafloor [®] -16 Pronto on Sikafloor [®] -14 Pronto allow						nto allow:	
Overcoating	Substrate temperature	-5℃	;	0°C	+10°C	+20 ℃	+30 <i>°</i> C
	Minimum (minutes)	120)	80	60	45	35
	Maximum (minutes)	*		*	*	*	*
	Note: if coloured waiting time	flakes are u	used,	30 minute	es have to be a	dded to the r	ninimum
	Before applying S	Sikafloor [®] -10	6 Pror	nto on Sik	afloor [®] -16 Pro	nto allow:	
	Substrate						

Substrate temperature	-5℃	0°C	+10℃	+20 <i>°</i> C	+30 <i>°</i> ℃
Minimum (minutes)	70	50	40	40	25
Maximum (minutes)	*	*	*	*	*

*No time limits, the Sikafloor $^{\ensuremath{\mathbb{B}}}$ -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.

For application on fully broadcast Sikafloor[®]-261 or similar screeds refer to the PDS of this material.

Notes on Application / Limitations	Freshly applied Sikafloor [®] -16 Pronto must be protected from damp, condensation and water for at least 1 hour.					
	Use spark proof mixing equipment for internal applications.					
	Always ensure goo space.	od ventilation	when using S	ikafloor [®] -16 F	Pronto in a co	nfined
	For areas with free as a seal coat.	quent water lo	ad (approx. >	25% of time),	use Sikafloo	r-17 Pronto
	In order to ensure exchanged at leas forced fresh air su explosion-proof).	t seven times	per hour. Dur	ing application	on and curing	use a
	Unevenness of su sealer coats. Ther prior to application	efore substrat				
	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, whether packaged or not, should be completely isolated from the flooring works during the application process and until the products are fully cured. For exact colour matching, ensure the Sika [®] -Pronto Pigment 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. If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO ₂ and H ₂ O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.					
Curing Details						
Applied Product ready for use		-5°C	0°C	+10 <i>°</i> C	+20°C	+30 ℃
	Foot traffic (minutes)	~ 70	~ 50	~ 40	~ 40	~ 25
	Full cure (hours)	~ 2	~ 2	~ 1	~ 1	~ 1
	Note: Times are a	pproximate ar	d will be affed	ted by chang	ging ambient o	conditions
Cleaning / Maintenance						
	To maintain the ap have all spillages mechanical scrubb techniques etc. us	removed imme pers, scrubber	ediately and b dryer, high p	e regularly cl ressure wash	eaned using i	rotary brush,
Maintenance	have all spillages i mechanical scrubb	removed imme pers, scrubber ing suitable de stated in this F	ediately and b dryer, high p etergents and Product Data S	e regularly cl ressure wash waxes. Sheet are bas	eaned using i ier, wash and sed on laborat	rotary brush, vacuum tory tests.
Maintenance Methods	have all spillages mechanical scrubb techniques etc. us All technical datas	removed immo pers, scrubber ing suitable do stated in this F data may vary s a result of s from country t	ediately and b dryer, high p etergents and Product Data s due to circum pecific local re country. Ple	e regularly cl ressure wash waxes. Sheet are bas istances bey egulations the ase consult t	eaned using i ler, wash and sed on laboration ond our contro performance	rotary brush, vacuum tory tests. bl.

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 in accordance with Sika's recommendations. 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 written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. 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.

CE Labelling	The harmonized European Standard EN 13 813 "Screed material and floor screeds Screed materials - Properties and requirements" specifies requirements for screed materials for use in floor construction internally.					
	Structural screeds or coatings, i.e. those that contribute to the load bearing capacity of the structure, are excluded from this standard.					
	Resin floor systems as well as cementitious screeds fall under this specification. They have to be CE-labelled as per Annex ZA. 3, Table ZA.1.5 and 3.3 and fulfil the requirements of the given mandate of the Construction Products Directive (89/106):					
	CE					
	Sika Deutschland GmbH Kornwestheimerstraße 103-107 D - 70439 Stuttgart Germany					
	08 ¹⁾					
	EN 13813 SR-B1,5-AR1					
	Primer/Sealer (systems as per Product Data Sheet)					
	Reaction to fire:	NPD ²⁾				
	Release of corrosive substances (S ynthetic R esin Screed):	SR				
	Water permeability:	NPD				
	Abrasion Resistance:	AR 1				
	Bond strength:	B 1,5				
	Impact Resistance:	NPD				
	Sound insulation:	NPD				
	Sound absorption:	NPD				
	Thermal resistance:	NPD				
	Chemical resistance:	NPD				

 $^{\mbox{\tiny 2)}}$ No performance determined.



CE Labelling

The harmonized European Standard EN 1504-2 "Products and systems for the protection and repair of concrete structures – Definitions, requirements, quality control and evaluation of conformity – Part 2 : Surface protection systems for concrete" gives specifications for products and systems used as methods for the various principles presented under EN 1504-9.

Products which fall under this specification have to be CE-labelled as per Annex ZA. 1, Tables ZA.1a to ZA 1g according to the scope and relevant clauses there indicated, and fulfil the requirements of the given mandate of the Construction Products Directive (89/106):

Here below indicated are the minimum performance requirements set by the standard. For the specific performance results of the product to the particular tests, please see the actual values above in the PDS.

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1119				
Sika Deutschland GmbH Kornwestheimerstraße 103-107 D - 70439 Stuttgart Germany				
08 ¹⁾				
1119–CPD–11	31			
EN 1504-2				
Surface Protection Product				
Coating ²⁾				
Abrasion resistance (Taber test):	< 3000 mg			
Permeability to CO ₂ :	$S_D > 50 \text{ m}$			
Permeability to water vapour:	Class III			
Capillary absorption and permeability to water:	$w < 0.1 \text{ kg/m}^2 \text{ x h}^{0.5}$			
Resistance to severe chemical attack: 3)	Class I			
Impact resistance:	Class I			
Adhesion strength by pull-off test:	≥ 2.0 N/mm²			
Fire Classification: 4)	E _{fl}			

¹⁾ Last two digits of the year in which the marking was affixed.

 $^{2)}$ Tested as a part of a system build-up with Sikafloor $^{\text{\tiny B}}$ -14 Pronto and Sikafloor $^{\text{\tiny B}}$ -16 Pronto.

³⁾ Please refer to the Sikafloor[®] Chemical Resistance Chart.

⁴⁾ Min. classification, please refer to the individual test certificate.

 EU Regulation 2004/42
 According to the EU-Directive 2004/42, the maximum allowed content of VOC

 VOC - Decopaint Directive
 (Product category IIA / j type sb) is 550 / 500 g/l (Limits 2007 / 2010) for the ready to use product.

 The maximum content of Sikafloor[®]-16 Pronto is < 500 g/l VOC for the ready to use product.</td>



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