Product Data Sheet Edition 15/01/2009 Identification no: 01 08 01 05 002 0 000004 Sikafloor®-14 Pronto

~ ~	EN 13813	08	
CE	EN 1504-2	08	1119 - CPD - 1 <sup>4</sup>

# Sikafloor<sup>®</sup>-14 Pronto

3-part self-smoothing screed and levelling mortar based on reactive acrylic resins

Product Description	Sikafloor <sup>®</sup> -14 Pronto is a three part, fast curing self-smoothing screed based on reactive acrylic resins for the Sikafloor <sup>®</sup> -Pronto Modular System and can also be used as a binder for levelling mortars.				
	Sikafloor <sup>®</sup> -14 Pronto consists of:				
	Part A: Sikafloor <sup>®</sup> -14 Pronto Resin Part B: Sika <sup>®</sup> -Pronto Hardener Part C: Sikafloor <sup>®</sup> -Pronto Filler				
	Sika <sup>®</sup> -Pronto Pigment is used to colour Sikafloor <sup>®</sup> -14 Pronto if required.				
Uses	Fast curing mechanically and chemically resistant coatings with layer thickness of 2 to 4 mm				
	Particularly suitable for the beverage and food industry				
	Fast decking system in multi-storey and underground car-parks				
	Skid resistant and multi-coloured surfaces can be obtained by broadcasting with coloured quartz sand or coloured chips				
Characteristics /	Very fast curing, even at low temperatures				
Advantages	Good mechanical and chemical resistance				
	Good UV resistance				
	Solvent-free				
	Part of a complete modular system				

## **Product Data**

Form			
Appearance / Colours	Part A: Sikafloor <sup>®</sup> -14 Pronto: Part B: Sika <sup>®</sup> -Pronto Hardener: Part C: Sikafloor <sup>®</sup> -Pronto Filler: Sika <sup>®</sup> -Pronto Pigment: ~ RAL 7032 other colours upon re	transparent, bluish liquid white, powder white, fine aggregates equest.	
Packaging	Part A: Sikafloor <sup>®</sup> -14 Pronto: Part B: Sika <sup>®</sup> -Pronto Hardener: Part C: Sikafloor <sup>®</sup> -Pronto Filler: Sika <sup>®</sup> -Pronto Pigment: 5 kg (10 x	25 kg	



131

## 0

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 $^\circ$ C and +30 $^\circ$ C.				
	Part A: Sikafloor <sup>®</sup> -14 Pronto: Part B: Sika <sup>®</sup> -Pronto Hardener: Part C: Sikafloor <sup>®</sup> -Pronto Filler Sika <sup>®</sup> -Pronto Pigment	12 months 6 months for an unlimited period 2 years			
	Sikafloor <sup>®</sup> -Pronto Hardener must be protected from heat, direct sunlight, moisture and impact.				
Technical Data					
Chemical Base	Reactive acrylic resins				
Density	∼ 0.99 kg/l (at +23 ℃)	(DIN 51 757)			
Solid Content	~ 100% (by volume) / ~ 100% (by v	veight)			
Mechanical / Physical Properties					
Compressive Strength	Resin filled: ~ 40 N/mm <sup>2</sup> (14 days /	+23 °C) (DIN 1164)			
Flexural Strength	Resin filled: ~ 25 N/mm <sup>2</sup> (14 days /	+23 °C) (DIN 1164)			
Shore D Hardness	Resin: ~ 62	(DIN 53 505)			
Resistance					
Chemical Resistance	Resistant to many chemicals. Pleas	se ask for a detailed chemical resistance table.			
Thermal Resistance					
	Exposure*	Dry heat			
	Permanent	+50 °C			
	Short-term max. 2d	+60°C			
	Short-term max. 1h	℃ 08+			
	Short-term moist/wet heat* up to +8 (steam cleaning etc.)	30°C where exposure is only occasional			
	* No simultaneous chemical and mecha Sikafloor <sup>®</sup> -13 / -16 Pronto as a broadca	nical exposure and only in combination with ast system with approx. 3 - 4 mm thickness.			

System Information		
System Structure	<i>Scratch coat / leve</i> Primer: Scratch coat:	<i>lling mortar (surface roughness up to 3 mm):</i> 1 x Sikafloor <sup>®</sup> -10 / -13 Pronto 1 x Sikafloor <sup>®</sup> -14 Pronto + quartz sand (0.1 - 0.3 mm) + Extender T
	Broadcast system Primer: Base coat: Broadcasting: Seal coat:	approx. 2 - 4 mm for dry interior areas: 1 x Sikafloor <sup>®</sup> -10 / -13 Pronto 1 x Sikafloor <sup>®</sup> -14 Pronto quartz sand (0.4 - 0.7 mm or 0.7 - 1.2 mm), coloured quartz sand (0.3 - 0.8 mm or 0.6 - 1.2 mm) or coloured chips, broadcast to excess 1 - 2 x Sikafloor <sup>®</sup> -16 Pronto
	Primer: Membrane: Base coat: Broadcasting:	approx. 3 - 4 mm for wet areas, flexible: 1 x Sikafloor <sup>®</sup> -10 / -13 Pronto 1 x Sikafloor <sup>®</sup> -15 Pronto 1 x Sikafloor <sup>®</sup> -14 Pronto quartz sand (0.7 - 1.2 mm) or coloured quartz sand (0.6 - 1.2 mm), broadcast to excess 1 - 2 x Sikafloor <sup>®</sup> -17 Pronto
	Broadcast system Primer: Base coat: Broadcasting: Seal coat:	approx. 2 - 4 mm for interior and exterior areas: 1 x Sikafloor <sup>®</sup> -10 / -13 Pronto 1 x Sikafloor <sup>®</sup> -14 Pronto quartz sand (0.7 - 1.2 mm) or coloured quartz sand (0.6 - 1.2 mm), broadcast to excess 1 – 2 x Sikafloor <sup>®</sup> -18 Pronto
	Primer: 1 x Sikaflo Membrane: Base coat: Broadcasting:	approx. 3 - 4 mm for interior and exterior areas, flexible: or <sup>®</sup> -10 / -13 Pronto 1 x Sikafloor <sup>®</sup> -15 Pronto 1 x Sikafloor <sup>®</sup> -14 Pronto quartz sand (0.7 - 1.2 mm) or juartz sand (0.6 - 1.2 mm), broadcast to excess 1 - 2 x Sikafloor <sup>®</sup> -18 Pronto

### **Application Details**

#### Consu

Consumption			
	Coating System	Product	Consumption
	Primer	Sikafloor <sup>®</sup> -13 Pronto	0.4 - 0.5 kg/m²
	Levelling Mortar (surface roughness max 3 mm)	Sikafloor <sup>®</sup> -14 Pronto without Filler (1 pbw) quartz sand 0.1 - 0.3 mm (1.5 - 2.0 pbw) Extender T (0.01 - 0.02 pbw)	~ 1.5 kg/m <sup>2</sup> /mm (0.5 kg part A + 1 kg quartz sand + 0.01 kg Extender T)
	Broadcast base coat using quartz sand or coloured quartz sand	Sikafloor <sup>®</sup> -14 Pronto inclusive Filler, Hardener and (optional) Pigment (refer to mixing table)	1.5 - 4.0 kg/m <sup>2</sup>
	(film thickness ~ 3 - 4 mm)	broadcast with quartz sand or coloured quartz sand	~ 6.0 kg/m <sup>2</sup>
	Broadcast base coat using coloured chips (film thickness	Sikafloor <sup>®</sup> -14 Pronto inclusive Filler, Hardener and (optional) Pigment (refer to mixing table)	5.0 kg/m <sup>2</sup>
	~ 3 - 4 mm)	broadcast with colour chips	~ 0.5 kg/m <sup>2</sup>
	Seal coat (dry areas)	Sikafloor <sup>®</sup> -16 Pronto	0.6 - 0.8 kg/m <sup>2</sup> in 1 to 2 coats
		(incl. Pigment if required)	
	Coating (dry and exterior areas)	Sikafloor <sup>®</sup> -14 Pronto Sikafloor <sup>®</sup> -16 Pronto	~ 0.6 - 0.8 kg/m <sup>2</sup> ~ 0.3 - 0.4 kg/m <sup>2</sup>
	exterior areas)	(incl. Pigment if required)	
	Seal coat (exterior	Sikafloor <sup>®</sup> -18 Pronto	~ 0.5 - 0.8 kg/m <sup>2</sup>
	areas)		In 1 – 2 coats
		eoretical and do not allow for a face profile, variations in level	
Substrate Quality		bstrate must be sound and of s n a minimum pull-off strength 1	sufficient compressive strength .5 N/mm <sup>2</sup> .
		be clean dry and free of all con d surface treatments, etc.	taminants such as dirt, oil,
	If in doubt apply a te	st area first.	
	The Sikafloor <sup>®</sup> -Pront	to System is not suitable to be	applied on any kind of asphalt!
Substrate Preparation			ly using abrasive blast cleaning and achieve an open textured
	Weak concrete must must be fully expose		cts such as blowholes and voids
		rate, filling of blowholes/voids a propriate products from the Sik	and surface levelling must be afloor <sup>®</sup> , Sikadur <sup>®</sup> and Sikagard <sup>®</sup>
	The concrete or scree even surface.	eed substrate has to be primed	or levelled in order to achieve an
	High spots must be	removed by e.g. grinding.	
		iable material must be comple the product, preferably by brue	
	The concrete or scree even surface. High spots must be in All dust, loose and fr	removed by e.g. grinding. riable material must be comple	tely removed from all surfaces

Application Conditions / Limitations			
Substrate Temperature	0℃ min. / +30℃ max.		
Ambient Temperature	0℃ min. / +30℃ max.		
Substrate Moisture	≤ 4% pbw moisture content.		
Content	Test method: Sika <sup>®</sup> -Tramex meter, CM - measurement or Oven-dry-method.		
	No rising moisture according to ASTM (Polyethylene-Sheet).		
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

Mixing

Self-smoothing screed and levelling mortar:

Part A : Part C : Pigment = 12.5 : 25 : 1 (by weight)

The amount of Hardener required is dependent on the ambient- and substrate temperature (see table below).

Sikafloor <sup>®</sup> -14 Pronto	Sil	Sika <sup>®</sup> -Pronto Hardener			Sikafloor <sup>®</sup> -Pronto Filler	Sika <sup>®</sup> -Pronto Pigment
12.5 kg	0°C	+10 <i>°</i> C	+20 ℃	+30 <i>°</i> C		
Sika <sup>®</sup> -Pronto Hardener (%pbw)	750 g (6.0%)	500 g (4.0%)	375 g (3.0%)	250 g (2.0%)	25 kg	1 kg

Seal coat (underneath Sikafloor<sup>®</sup>-16 Pronto):

Part A : Pigment = 9 : 1 (by weight)

The amount of Hardener required is dependent on the ambient- and substrate temperature (see table below).

Sikafloor <sup>®</sup> -14 Pronto	Sika <sup>®</sup> -Pronto Hardener				
Sikanoor -14 Pronto	0°C	+10°C	+20 ℃	+30℃	
Sika <sup>®</sup> -Pronto Hardener	6.0%	4.0%	3.0%	2.0%	

Mixing Time	Mix part A thoroughly, then add the Sikafloor <sup>®</sup> -Pronto Filler, and (if required) the Sika <sup>®</sup> -Pronto Pigment and mix for at least 1 minute. When the different components are adequately mixed, 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 (2 x 12.5 kg) (refer to Mixing table). Always weigh out components.
Mixing Tools	For indoor work, spark free mixing equipment must be used (explosion-proof)!
	Sikafloor <sup>®</sup> -14 Pronto must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.

Application Method / Tools	Prior to application, co	onfirm substrate	e moisture conte	nt, r.h. and dew	point.	
10015	<ul> <li>Levelling: Rough surfaces need to be levelled first. Therefore use e.g. Sikafloor<sup>®</sup>-14 Pronto as a levelling mortar (see PDS). Apply by squeegee / trowel to the required thickness.</li> <li>Stripe Coating After priming the concrete with Sikafloor Pronto 13 and before the application of the Sikafloor Pronto decking system, apply a 200 mm wide 'stripe coat' of Sikafloor 15 Pronto to be used as a reinforcement embedment layer. Whilst the embedment layer is wet, apply a strip of 300g fleece, working well into the Sikafloor 15 Pronto. Apply a further saturation layer of Sikafloor 15 to fully encapsulate the fleece. Minimum consumption of Sikafloor 15 Pronto 1kg/m2</li> </ul>					
	<b>Note:</b> broadcast quart times broadcast slight quartz sand and to ave	ly, then to exce	ess in order to er			
	A multi coloured surface can be obtained by broadcasting with coloured-chips or coloured-quartz. (The compatibility of the coloured-chips to PMMA-systems must be checked prior to application).					
	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	Clean all tools and app Hardened and/or cure				/ after use.	
Potlife						
			10.00	+20 ℃		
		O°0	+10°C	+20 0	+30 °C	
	Time (minutes)	0℃ ~ 20	+10°C ~ 20	~ 15	+30 <i>°</i> C ~ 10	
Waiting Time /		~ 20	~ 20	~ 15		
	Before applying Sikafle	~ 20	~ 20 on Sikafloor <sup>®</sup> -1	~ 15 3 Pronto allow:	~ 10	
		~ 20	~ 20	~ 15		
	Before applying Sikafle Substrate temperature	~ 20 oor <sup>®</sup> -14 Pronto 0℃	~ 20 on Sikafloor <sup>®</sup> -1 +10°C	~ 15 3 Pronto allow: +20 ℃	~ 10 +30 °C	
	Before applying Sikafle Substrate temperature Minimum(minutes)	~ 20 oor <sup>®</sup> -14 Pronto 0℃ 50 *	~ 20 on Sikafloor <sup>®</sup> -1 +10℃ 45 *	~ 15 3 Pronto allow: +20 ℃ 40	~ 10 +30 °C 35	
	Before applying Sikafle Substrate temperature Minimum(minutes) Maximum (minutes) Before applying Sikafle Sikafloor®-14 Pronto a	~ 20 oor <sup>®</sup> -14 Pronto 0℃ 50 *	~ 20 on Sikafloor <sup>®</sup> -1 +10℃ 45 *	~ 15 3 Pronto allow: +20 ℃ 40	~ 10 +30 °C 35	
	Before applying Sikafle Substrate temperature Minimum(minutes) Maximum (minutes) Before applying Sikafle Sikafloor <sup>®</sup> -14 Pronto a Substrate temperature	~ 20 oor <sup>®</sup> -14 Pronto 0℃ 50 * oor <sup>®</sup> -14 Pronto	~ 20 on Sikafloor <sup>®</sup> -1 +10℃ 45 * / -16 Pronto on	~ 15 3 Pronto allow: +20 ℃ 40 *	~ 10 +30 °C 35 *	
	Before applying Sikafle Substrate temperature Minimum(minutes) Maximum (minutes) Before applying Sikafle Sikafloor®-14 Pronto a Substrate temperature Minimum(minutes)	~ 20 oor <sup>®</sup> -14 Pronto 0℃ 50 * oor <sup>®</sup> -14 Pronto illow: 0℃	~ 20 on Sikafloor <sup>®</sup> -1 +10℃ 45 * / -16 Pronto on +10℃	~ 15 3 Pronto allow: +20 ℃ 40 *	~ 10 +30°C 35 * +30°C	
Waiting Time / Overcoating	Before applying Sikafle Substrate temperature Minimum(minutes) Maximum (minutes) Before applying Sikafle Sikafloor <sup>®</sup> -14 Pronto a Substrate temperature	~ 20 oor <sup>®</sup> -14 Pronto 0 ℃ 50 * oor <sup>®</sup> -14 Pronto illow: 0 ℃ 80 *	~ 20 on Sikafloor <sup>®</sup> -1 +10 ℃ 45 * / -16 Pronto on +10 ℃ 60 *	~ 15 3 Pronto allow: +20 ℃ 40 * +20 ℃ 45 *	~ 10 +30 °C 35 * +30 °C 35 *	

Notes on Application / Limitations	Do not use Sikafloor	<sup>®</sup> -14 Pronto on s	ubstrates with r	ising moisture.		
	In case of broadcast systems with a finer quartz sand, e.g. 0.4 - 0.7 mm, curing defects may occur which may require additional hardener. A trial area is mandatory.					
	Freshly applied Sikat and water for at least		must be protect	ed from damp, c	ondensation	
	Avoid puddles on the	e surface with the	e primer.			
	Use spark proof mixi	ng equipment fo	r internal applica	ations.		
	Always ensure good space.	ventilation wher	n using Sikafloor	<sup>®</sup> -14 Pronto in a	confined	
	In order to ensure op exchanged at least s forced fresh air supp proof).	even times per l	nour. During app	lication and curi	ng use a	
	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.					
	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.					
	If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both $CO_2$ and $H_2O$ 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						
		0°C	+10°C	+20 ℃	+30 <i>°</i> C	
	Foot traffic (minutes)	~ 80	~ 60	~ 45	~ 35	
	Full cure (hours)	~ 3	~ 3	~ 2	~ 2	
	Times are approxima	ate and will be a	ffected by chang	ing ambient con	ditions.	
	All technical data sta Actual measured dat					
Value Base						
Value Base	product may vary fro	m country to cou	untry. Please co	nsult the local Pr		
	product may vary fro	m country to cou lescription of the advice on the sa refer to the mos	antry. Please co application field fe handling, stor st recent Materia	nsult the local Pr ds. rage and disposa Il Safety Data Sh	oduct Data	

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	<ul> <li>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.</li> <li>Structural screeds or coatings, i.e. those that contribute to the load bearing capacity of the structure, are excluded from this standard.</li> <li>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):</li> </ul>						
					CE		
					Sika Deutschland GmbH Kornwestheimerstraße 103-107 D - 70439 Stuttgart Germany		
	081)						
	EN 13813 SR-B1,5-AR1-IR 4						
	Resin screed/coating for indoors in buildings (systems as per Product Data Sheet)						
	Reaction to fire:	E <sub>fl</sub> <sup>2)</sup>					
	Release of corrosive substances ( <b>S</b> ynthetic <b>R</b> esin Screed):	SR					
	Water permeability:	NPD 3)					
	Abrasion Resistance:	AR 1					
	Bond strength:	B 1,5					
	Impact Resistance:	IR 4					
	Sound insulation:	NPD					
		Sound absorption:	NPD				

<sup>1)</sup> Last two digits of the year in which the marking was affixed.

NPD NPD

<sup>2)</sup> In Germany, DIN 4102 still applies. Passed class B2.

<sup>3)</sup> No performance determined.

Thermal resistance:

Chemical resistance:



#### 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.

CE	
1119	
Sika Deutschland Kornwestheimerstraß D - 70439 Stutt Germany	e 103-107
08 <sup>1)</sup>	
1119–CPD–11	31
EN 1504-2	
Surface Protection	Product
Coating <sup>2)</sup>	
Abrasion resistance (Taber test):	< 3000 mg
Permeability to CO <sub>2</sub> :	<i>S</i> <sub>D</sub> > 50 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 <sub>fl</sub>

<sup>1)</sup> Last two digits of the year in which the marking was affixed.

<sup>2)</sup> Tested as a part of a system build-up with Sikafloor<sup>®</sup>-13 Pronto and Sikafloor<sup>®</sup>-16 Pronto.

<sup>3)</sup> Please refer to the Sikafloor<sup>®</sup> Chemical Resistance Chart.

<sup>4)</sup> 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<sup>®</sup>-14 Pronto is < 500 g/l VOC for the ready to use product.</td>



Sika Limited Watchmead Welwyn Garden City Hertfordshire AL7 1BQ United Kingdom

Phone +44 1707 394444 Telefax +44 1707 329129 www.sika.co.uk, email: sales@uk.sika.com

