

Product Data Sheet
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Sikafloor®-13 Pronto



EN 13813

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EN 1504-2

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1119 - CPD - 1131

Sikafloor®-13 Pronto

2-part primer based on reactive acrylic resins

Product Description

Sikafloor®-13 Pronto is a two part, low-viscosity, fast curing primer based on reactive acrylic resins for the Sikafloor®-Pronto Modular System.

Sikafloor®-13 Pronto consists of:

Part A: Sikafloor®-13 Pronto Resin
Part B: Sika®-Pronto Hardener

Uses

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

Characteristics / Advantages

- Very fast curing, even at low temperatures
- Solvent-free
- Part of a complete modular system

Product Data

Form

Appearance / Colours

Part A: Sikafloor®-13 Pronto: transparent, liquid
Part B: Sika®-Pronto Hardener: white, powder

Packaging

Part A: Sikafloor®-13 Pronto: 25 kg, 200 kg
Part B: Sika®-Pronto Hardener: 0.96 kg bags

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°C and +30°C:

Part A: Sikafloor®-13 Pronto: 12 months
Part B: Sika®-Pronto Hardener: 6 months

Sikafloor®-Pronto Hardener must be protected from heat, direct sunlight, moisture and impact.

Technical Data

Chemical Base

Reactive acrylic resins

Density

~ 0.98 kg/l (+23°C)

(DIN 51 757)

Solid Content

~ 100% (by volume) / ~ 100% (by weight)

Construction



Resistance

Thermal Resistance

Exposure*	Dry heat
Permanent	+50°C
Short-term max. 2d	+60°C
Short-term max. 1h	+80°C

Short-term heat* up to +80°C where exposure is only occasional (steam cleaning etc.)

* No simultaneous chemical and mechanical exposure and only in combination with Sikafloor®-14 / -16 Pronto as a broadcast system with approx. 3 - 4 mm thickness.

System Information

System Structure

Priming:

Primer: 1 x Sikafloor®-13 Pronto for low / medium porosity concrete
2 x Sikafloor®-13 Pronto for high porosity concrete

Application Details

Consumption

Coating System	Product	Consumption
Primer	Sikafloor®-13 Pronto	0.40 - 0.50 kg/m ² per coat

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc.

Substrate Quality

The cementitious substrate must be sound and of sufficient compressive strength (min. 25 N/mm²) with a minimum pull-off strength 1.5 N/mm².

The substrate must be clean dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc.

If in doubt apply a test area first.

The Sikafloor®-Pronto System is not suitable to be applied on any kind of asphalt!

Substrate Preparation

Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface.

Weak concrete must be removed and surface defects such as blowholes 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 Sikafloor®, Sikadur® and Sikagard® range of materials.

The concrete or screed substrate has to be primed or levelled in order to achieve an even surface.

High spots can be removed by e.g. grinding.

Application Conditions / Limitations

Substrate Temperature -10°C min. / +30°C max.

Ambient Temperature -10°C min. / +30°C max.

Substrate Moisture Content ≤ 4% pbw moisture content.

Test method: Sika®-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	The amount of Hardener required is dependent on the ambient- and substrate temperature (see table below).				
	Sika®-Pronto Hardener				
Sikafloor®-13 Pronto 12.5 kg	-10 °C	0 °C	+10 °C	+20 °C	+30 °C
Sika®-Pronto Hardener (%pbw)	875 g (7.0%)	625 g (5.0%)	500 g (4.0%)	375 g (3.0%)	250 g (2.0%)

Mixing Time	Mix part A thoroughly, 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 (2 x 12.5 kg) (refer to Mixing table). Always weigh out components.
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Mixing Tools	<i>For indoor work, spark free mixing equipment must be used (explosion-proof)!</i> Sikafloor®-13 Pronto must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.
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Application Method / Tools	Prior to application, confirm substrate moisture content, r.h. and dew point. <i>Priming:</i> <u>Normal non-porous surfaces:</u> Apply one coat of Sikafloor®-13 Pronto. Make sure that a continuous, pore free coat covers the substrate, i.e. minimum 0.4 kg/mm ² . If in doubt, apply another priming coat. <u>Absorbent surfaces:</u> Apply two coats wet on wet of Sikafloor®-13 Pronto until saturation of the substrate is achieved. For waiting time before overcoating see table "Waiting Time / Overcoating". Apply Sikafloor®-13 Pronto using a "non-fuzzing", short-pile nylon roller. The freshly applied priming coat can be blided lightly with quartz sand 0.7 - 1.2 mm, consumption approx. 0.2 - 0.5 kg/m ² .
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Cleaning of Tools	Clean all tools with Thinner C immediately after use. Hardened and/or cured material can only be removed mechanically.
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Potlife	-10 °C	0 °C	+10 °C	+20 °C	+30 °C
Time (minutes)	~ 22	~ 15	~ 13	~ 12	~ 10

Waiting Time / Overcoating

Before applying Sikafloor®-13 Pronto / -14 Pronto on Sikafloor®-13 Pronto allow:

Substrate temperature	-10 °C	0 °C	+10 °C	+20 °C	+30 °C
Minimum (minutes)	70	50	45	40	35
Maximum (minutes)	*	*	*	*	*

*No time limit, the Sikafloor®-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.

Notes on Application / Limitations

Do not use Sikafloor®-13 Pronto on substrates with rising moisture.

Freshly applied Sikafloor®-13 Pronto must be protected from damp, condensation and water for at least 1 hour.

Avoid puddles on the surface with the primer.

Use spark proof mixing equipment for internal applications.

Always ensure good ventilation when using Sikafloor®-13 Pronto in a confined space.

In order to ensure optimum curing during internal applications the air must be exchanged at least seven 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, 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.

If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these 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.

Curing Details**Applied Product ready for use**

	-10 °C	0 °C	+10 °C	+20 °C	+30 °C
Foot traffic (minutes)	70	50	45	40	35
Full cure (hours)	~ 2	~ 2	~ 2	~ 2	~ 2

Times are approximate and will be affected by changing ambient conditions.

Value Base

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Local Restrictions

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

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 13813 „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):

	
Sika Deutschland GmbH Kornwestheimerstraße 103-107 D - 70439 Stuttgart	
08 ¹⁾	
EN 13813 SR-B1,5	
Primer/Sealer (systems as per Product Data Sheet)	
Reaction to fire:	NPD ²⁾
Release of corrosive substances (S ynthetic R esin S creed):	SR
Water permeability:	NPD
A brasion R esistance:	NPD ¹⁾
B ond strength:	B 1,5
I mpact R esistance:	NPD
Sound insulation:	NPD
Sound absorption:	NPD
Thermal resistance:	NPD
Chemical resistance:	NPD

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

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.

CE	
1119	
Sika Deutschland GmbH Kornwestheimerstraße 103-107 D - 70439 Stuttgart	
08 ¹⁾	
1119–CPD–1131	
EN 1504-2	
Surface Protection Product Coating ²⁾	
Abrasion resistance (Taber test):	< 3000 mg
Permeability to CO ₂ :	S _D > 50 m
Permeability to water vapour:	Class III
Capillary absorption and permeability to water:	w < 0.1 kg/m ² 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/mm ²
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®-14 Pronto and Sikafloor®-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

VOC - Decopaint Directive

According to the EU-Directive 2004/42, the maximum allowed content of VOC (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®-13 Pronto** is < 500 g/l VOC for the ready to use product.



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