

PRODUCT DATA SHEET

Sikafloor®-18 Pronto

2-part flexible seal coat for internal and external areas based on reactive acrylic resins

DESCRIPTION

Sikafloor-18 Pronto is a two part, fast curing, flexible seal coat based on reactive acrylic resins for the Sikafloor-Pronto Modular System.

Sikafloor-18 Pronto consists of:

Part A: Sikafloor-18 Pronto Resin

Part B: Sika-Pronto Hardener

Sika-Pronto Pigment is used to colour Sikafloor-18 Pronto where required.

USES

Sikafloor®-18 Pronto may only be used by experienced professionals.

- Seal coat for broadcast layers of the Sikafloor-Pronto Modular System (internal and external areas)
- Seal coat for broadcast screeds prepared of e.g. Sikafloor-81 EpoCem or Sikafloor-261 if broadcast to excess
- Particularly suitable for car park decking systems

CHARACTERISTICS / ADVANTAGES

- Very fast curing, even at low temperatures
- Good mechanical and chemical resistance
- Good UV-resistance
- Solvent-free
- Part of a complete modular system

APPROVALS / CERTIFICATES

- Certificate of conformity , 27053 U 08, Isega Germany, November 2008

PRODUCT INFORMATION

Composition	Reactive acrylic resins		
Packaging	Part A	Sikafloor-18 Pronto	25 kg, 200 kg
	Part B	Sika-Pronto Hardener	1.0 kg (in 0.1 kg bags)
		Sika-Pronto Pigment	5 kg (10 x 0.5 kg bags)
Appearance / Colour	Part A	Sikafloor-18 Pronto	transparent, bluish liquid
	Part B	Sika-Pronto Hardener	white, powder
		Sika-Pronto Pigment	~ 7032 other colours upon request.
Shelf life	Part A	Sikafloor-18 Pronto	12 months
	Part B	Sika-Pronto Hardener	6 months
		Sika-Pronto Pigment	2 years

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Storage conditions

Product should be stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +30°C.

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

Density	~ 0.98 kg/l (at +23°C)	DIN 51 757
Solid content by weight	~ 100%	
Solid content by volume	~ 100%	

TECHNICAL INFORMATION

Chemical Resistance Resistant to many chemicals. Please ask for a detailed chemical resistance table.

Temperature Resistance	Exposure*	Dry heat
	Permanent	+50°C
	Short term max. 1 h	+80°C

Short-term moist/wet 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 / -15 Pronto as a broadcast system with approx. 3 - 4 mm thickness.

SYSTEM INFORMATION

System	Sealing of broadcast screed:	
	<u>Broadcast system approx. 2 - 4 mm for interior and exterior areas:</u>	
	Primer:	1 x Sikafloor-10 / -13 Pronto
	Base coat:	1 x Sikafloor-14 Pronto
	Broadcasting:	quartz sand (0.7 - 1.2 mm) or coloured quartz sand (0.6 - 1.2 mm), broadcast to excess
	Seal coat:	1 - 2 x Sikafloor-18 Pronto
	<u>Broadcast system approx. 2 - 4 mm for interior and exterior areas, impact resistant, crack-bridging:</u>	
	Primer:	1 x Sikafloor-10 / -13 Pronto
	Base coat:	1 x Sikafloor-15 Pronto
	Broadcasting:	quartz sand (0.7 - 1.2 mm) or coloured quartz sand (0.6 - 1.2 mm), broadcast to excess
	Seal coat:	1 - 2 x Sikafloor-18 Pronto
	<u>Broadcast system approx. 3 - 4 mm for interior and exterior areas, flexible:</u>	
	Primer:	1 x Sikafloor-10 / -13 Pronto
	Base coat:	1 x Sikafloor-14 Pronto
	Membrane:	1 x Sikafloor-15 Pronto
	Broadcasting:	quartz sand (0.7 - 1.2 mm) or coloured quartz sand (0.6 - 1.2 mm), broadcast to excess
	Seal coat:	1 - 2 x Sikafloor-18 Pronto

Broadcast system approx. 3 - 4 mm for interior and exterior areas, reinforced:

Primer:	1 x Sikafloor-10 / -13 Pronto
Base coat:	1 x Sikafloor-15 Pronto
Fleece:	Sikalastic-120 Fleece
Encapsulation layer:	1 x Sikafloor-15 Pronto
Wearing course:	1 x Sikafloor-15 Pronto
Broadcasting:	quartz sand (0.7 - 1.2 mm) or coloured quartz sand (0.6 - 1.2 mm), broadcast to excess
Seal coat:	1 - 2 x Sikafloor-18 Pronto

Also suitable for sealing of e.g. Sikafloor-261 and Sikafloor-81 EpoCem if fully broadcast.

APPLICATION INFORMATION

Mixing Ratio

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

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

Sikafloor-18 Pronto: 9.0 kg

Sika-Pronto Hardener (%pbw):

+0°C	540 g (6.0%)
+10°C	450 g (5.0%)
+20°C	180 g (2.0%)
+30°C	90 g (1.0%)

The hardener powder can also be ordered under the product name „Perkadox CH 50 X“ by Akzo Nobel, www.akzonobel.com or “Interox BP-50 FT” by Degussa, www.degussa.com or “BP 50 W+” by Pergan GmbH, www.pergan.com.

Consumption

Transparent seal coat onto Sikafloor-14 Pronto broadcast systems

Product	Consumption
Sikafloor-18 Pronto	~ 0.5 - 0.7 kg/m ² in 1 - 2 coats

Coloured seal coat onto Sikafloor-14 Pronto broadcast systems

Product	Consumption
Sikafloor-18 Pronto (9 pbw) + Sika - Pronto Pigment (1 pbw)	~ 0.5 - 0.7 kg/m ² in 1 - 2 coats

Transparent seal coat onto Sikafloor-15 Pronto broadcast systems (flexible or elastomeric)

Product	Consumption
Sikafloor-18 Pronto	~ 0.5 - 0.7 kg/m ² in 1 - 2 coats

Coloured seal coat onto Sikafloor-15 Pronto broadcast systems (flexible or elastomeric)

Product	Consumption
Sikafloor-18 Pronto (9 pbw) + Sika- Pronto Pigment (1 pbw)	~ 0.5 - 0.7 kg/m ² in 1 - 2 coats

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 min. / +30°C max.

Relative Air Humidity

80 % r.h. max.

Dew Point

Beware of condensation!

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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.

Substrate Temperature

0°C min. / +30°C max.

Pot Life

	Time (minutes)
+0°C	~ 20
+10°C	~ 20
+20°C	~ 15
+30°C	~ 8

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

Curing Time

Before applying Sikafloor-18 Pronto on Sikafloor-14 / -15 Pronto allow:

Substrate temperature	Minimum (minutes)	Maximum (minutes)
+0°C	80	*
+10°C	60	*
+20°C	45	*
+30°C	35	*

Before applying Sikafloor-18 Pronto on Sikafloor-18 Pronto allow:

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

*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.

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

Applied Product Ready for Use

	+0°C	+10°C	+20°C	+30°C
Foot traffic (minutes)	~ 50	~ 50	~ 40	~ 30
Full cure (hours)	~ 2	~ 2	~ 1	~ 1

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

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APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

SUBSTRATE QUALITY

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

Pull-off strength shall be not less than 1.5 N/mm²

The application of a trial area is mandatory to ensure the compatibility of the substrate and the proposed Sikafloor Pronto System, especially when cementitious substrates treated with a curing agent.

SUBSTRATE PREPARATION

All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.

MIXING

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. For indoor work, spark free mixing equipment must be used (explosion-proof)!

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Sikafloor-18 Pronto must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.

For the preparation of the pigment powder, a dissolver must be used.

APPLICATION

Prior to application confirm r.h. and dew point.

For external applications, apply on a falling temperature. If applied during rising temperatures "pin holing" may occur from rising air.

Seal coat:

Immediately after mixing, pour the Sikafloor-18 Pronto onto the substrate and spread evenly by means of a "non-fuzzing" short-pile nylon roller or squeegee and then back-rolled (crosswise) with a short-piled roller.

A seamless finish can be achieved if a 'wet' edge is maintained during application.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with Sika Thinner C immediately after use. Hardened and/or cured material can only be removed mechanically.

MAINTENANCE

To maintain the appearance of the floor after application, Sikafloor-18 Pronto must have all spillages removed immediately and be regularly cleaned using rotary brush, mechanical scrubbers, scrubber dryer, high pressure washer, wash and vacuum techniques etc. using suitable detergents and waxes.

IMPORTANT CONSIDERATIONS

Freshly applied Sikafloor-18 Pronto must be protected from damp, condensation and water for at least 1 hour. Use spark proof mixing equipment for internal applications. Always ensure good ventilation when using Sikafloor-18 Pronto in a confined space. For areas without frequent water load (approx. > 25% of time) or dry areas with temperatures > 0°C use Sikafloor-16 Pronto as a seal coat. 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).

Unevenness of substrates as well as inclusions of dirt cannot be covered by thin sealer coats. Therefore substrate and adjacent areas must be cleaned thoroughly prior to application.

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

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Tools

Recommended Supplier of Tools:
PPW-Polyplan-Werkzeuge GmbH, Phone: +49
40/5597260, www.polyplan.com

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 CO₂ and H₂O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

BASIS OF PRODUCT DATA

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

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

CE MARK

Please refer to Declaration of performance.

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 Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

DIRECTIVE 2004/42/CE LIMITATION OF EMISSIONS OF VOC

According to the EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / j type **sb**) is 500 g/l (Limit 2010) for the ready to use product. The maximum content of Sikafloor-18 Pronto is < 500 g/l VOC for the ready to use product.

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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.

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