

PRODUCT DATA SHEET

Sikafloor®-32 Pronto

PMMA SELF-SMOOTHING CRACK-BRIDGING FLOORING RESIN

PRODUCT DESCRIPTION

Sikafloor®-32 Pronto is a 4-part, PU modified PMMA, fast curing flooring resin. It is self-smoothing, crack-bridging and part of the Sikafloor® Pronto RB-58 and Sikafloor® Pronto RB-28 systems.

USES

Sikafloor®-32 Pronto may only be used by experienced professionals.

Fast curing resin flooring wearing layer on cementitious substrates for:

- Multi-storey and underground car park top and intermediate decks, turning areas and ramps
- Interior and exterior use

CHARACTERISTICS / ADVANTAGES

- Static crack-bridging capacity, class A4 (-20 °C)
- Dynamic crack-bridging capacity class B3.2 (-10 °C)
- Very fast curing at low temperatures
- High elongation at break at -20 °C
- Good mechanical and chemical resistance
- Slip-resistant broadcast surface to suit clients requirements
- Waterproof
- Thickness: ~2.0–4.0 mm

APPROVALS / STANDARDS

- CE Marking and Declaration of Performance to EN 1504-2 - Surface protection product for concrete - Coating
- CE Marking and Declaration of Performance to EN 13813 - Resin screed material for internal use in buildings
- Crack Bridging Ability ASTM C1305, Sikafloor® Pronto RB-28, NELSON, Test report 19-1060(A)
- Fire testing EN 13501-1, Sikafloor®-32 Pronto, Hoch, Report No. KB-Hoch-120469
- Crack-bridging test EN 1062-7, Sikafloor® Pronto RB-58, kiwa, Report No. P 10729-1a-E

PRODUCT INFORMATION

Chemical Base	PU modified poly-methyl –methacrylate based resin	
Packaging	Part A: Sikafloor® Pronto Resin	25 kg containers 200 kg drums
	Part B: Sikafloor® Pronto Hardener	1.0 kg packs (in 0.1 kg bags)
	Sikafloor® Pronto Filler	25 kg packs
	Sika® Pronto Pigment	25 kg packs
	Refer to current price list for packaging variations.	
Appearance / Colour	Part A: Sikafloor® Pronto Resin	liquid, transparent
	Part B: Sikafloor® Pronto Hardener	powder, white
	Sikafloor® Pronto Filler	fine aggregates, white
	Sika® Pronto Pigment	~RAL 7032. Other colours on request
	Applied colours selected from colour charts will be approximate. Colour deviations may occur due to filling with quartz sand. For colour matching: Apply colour sample and confirm selected colour under real lighting conditions. When product is exposed to direct sunlight, there may be some discolouration and colour variation, this has no influence on the function and performance of the floor finish.	
Shelf Life	From date of production:	
	Part A: Sikafloor® Pronto Resin	12 months
	Part B: Sikafloor® Pronto Hardener	6 months
	Sikafloor® Pronto Filler	5 years
	Sika® Pronto Pigment	2 years
Storage Conditions	The product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging.	
Density	~0.99 kg/l Value at +23 °C.	(DIN 51 757)
Solid content by weight	~100 %	
Solid content by volume	~100 %	
Product Declaration	EN 13813: Resin screed material for internal use in buildings EN 1504-2: Surface protection product for concrete - Coating	

TECHNICAL INFORMATION

Elongation at Break	Unfilled Resin	~220 % (14 days / +23 °C)	(ISO 527)
	Unfilled Resin	~165 % (14 days / -20 °C)	
	Resin filled with Sikafloor®-Pronto Filler (1:0.3)	~157 % (14 days / +23 °C)	
Tensile Adhesion Strength	> 1.5 N/mm² (failure in concrete)		(DIN 1164)
Crack Bridging Ability	static	class A4 (-20 °C)	(DIN EN 1062-7)
		1.55mm	
	dynamic	class B3.2 (-10 °C)	
		up to 0.3mm	
Chemical Resistance	Resistant to many chemicals. Contact Sika Technical Services for additional information.		

Thermal Resistance**Exposure***

Permanent

Short-term max. 2 days

Short-term max. 1 hour

Dry heat

+40 °C

+50 °C

+60 °C

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

* No simultaneous chemical and mechanical exposure and only as a broadcast system with ~3 - 4 mm thickness.

SYSTEM INFORMATION**Systems**

Refer to the following System Data Sheets:

- Sikafloor® Pronto RB-28
- Sikafloor® Pronto RB-58

APPLICATION INFORMATION**Mixing Ratio**

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

The amount of hardener required to be added to 12,5 kg of Part A: (Sikafloor® Pronto Resin) is dependent on the substrate temperature.

Substrate Temperature	Sikafloor® Pronto Hardener (% pbw)	Sikafloor® Pronto Filler	Sika® Pronto Pigment
0 °C	750 g (6.0 %)	25 kg	1 kg
+5 °C	750 g (6.0 %)	25 kg	1 kg
+10 °C	500 g (4.0 %)	25 kg	1 kg
+15 °C	375 g (3.0 %)	25 kg	1 kg
+20 °C	250 g (2.0 %)	25 kg	1 kg
+25 °C	190 g (1.5 %)	25 kg	1 kg
+30 °C	125 g (1.0 %)	25 kg	1 kg

The hardener powder can also be ordered under the product name "Perkadox CH 50 X" or "Perkadox GB-50X" by Akzo Nobel, www.akzonobel.com.

Consumption

~3–4 kg/m² depending on the system applied

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc. For detailed information, refer to the System Data Sheets

Ambient Air Temperature

+0 °C min. / +30 °C max.

Relative Air Humidity

~80 % max.

Dew Point

Beware of condensation.

The substrate and uncured applied floor material 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.

Substrate Moisture Content

≤4 % parts by weight

The following test methods can be used: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).

Pot Life	Temperature	Time
	0 °C	~20 minutes
	+5 °C	~20 minutes
	+10 °C	~15 minutes
	+15 °C	~15 minutes
	+20 °C	~15 minutes
	+25 °C	~12 minutes
	+30 °C	~10 minutes

Curing Time	Before overcoating Sikafloor®-32 Pronto allow:	
	Temperature	Time
	0 °C	~80 minutes
	+5 °C	~80 minutes
	+10 °C	~60 minutes
	+15 °C	~50 minutes
	+20 °C	~45 minutes
	+25 °C	~35 minutes
	+30 °C	~10 minutes

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

Applied Product Ready for Use	Temperature	Foot traffic	Full cure
	0 °C	~80 minutes	~3 hours
	+5 °C	~80 minutes	~3 hours
	+10 °C	~60 minutes	~3 hours
	+15 °C	~50 minutes	~3 hours
	+20 °C	~45 minutes	~2 hours
	+25 °C	~35 minutes	~2 hours
	+30 °C	~30 minutes	~2 hours

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

APPLICATION INSTRUCTIONS

EQUIPMENT

Select the most appropriate equipment required for the project:

Substrate preparation

- Abrasive blasting cleaning equipment
- Planing machine
- Scarifying machine
- High pressure water blasting equipment

For other types of preparation equipment, contact Sika Technical Services

Mixing

- Electric single or double paddle mixer (300–400 rpm)
- Electric single or double paddle mixer (300–400 rpm) with spark free induction motor for indoor mixing
- Scraper
- Clean mixing containers

For other types of mixing equipment, contact Sika Technical Services

Application

- Mixed material carrier
- Trowels including serrated
- Spiked roller
- Squeegee
- Fleece rollers
- Flat spatula

SUBSTRATE QUALITY / PRE-TREATMENT

Cementitious substrates (concrete / screed) must be structurally sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum tensile strength of 1.5 N/mm².

Substrates must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

Cementitious substrates must be prepared mechanically using suitable abrasive blast cleaning or planing / scarifying equipment to remove cement laitance and achieve an open textured gripping surface profile suitable for the product thickness.

High spots can be removed by grinding.

Weak cementitious substrates must be removed and surface defects such as blow holes and voids must be fully exposed.

Repairs to the substrate, filling of cracks, blowholes/voids and surface levelling must be carried out using products from the Sikafloor®, Sikadur® and Sikagard® range of materials. Products must be cured before applying Sikafloor®-32 Pronto.

All dust, loose and friable material must be completely removed from all surfaces before application of the product and associated system products, preferably by vacuum extraction equipment.

MIXING

Prior to mixing all parts, mix separately Part A (resin) thoroughly using an electric single paddle mixer or other similar equipment. Add Sikafloor® Pronto Filler and if required, Sika®-Pronto Pigment to Part A and mix these parts for at least 1 minute until a uniform mix has been achieved. If the coloured pigment has been added, mixing must ensure a consistent colour has been achieved. When Parts A, filler and pigment have been mixed, add Part B (hardener) and mix for at least another 1 minute, until a uniform mix has been achieved. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth consistent mix. Excessive mixing must be avoided to minimise air entrainment. During the final mixing stage, scrape down the sides and bottom of the mixing container with a flat or straight edge trowel at least once to ensure complete mixing. Mix full units only. Mixing time for Part A + Filler + Pigment + Part B = ~3 minutes.

For ease of handling and mixing, 25 kg units may be divided (2 × 12.5 kg) (refer to Mixing table). Always weigh each product part.

APPLICATION

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

Prior to application, confirm substrate moisture content, relative air humidity, dew point, substrate, air and product temperatures. If moisture content > 4% parts by weight, Sikafloor® EpoCem® may be applied as a Temporary Moisture Barrier (T.M.B.) system. For external applications, apply on a falling temperature. If applied during rising temperatures "pin holing" may occur from rising air.

Levelling

Rough surfaces must be levelled first using Sikafloor®-32 Pronto (with or without Sika® Pronto Pigment) or using Sikadur®-12 Pronto levelling mortar. Apply by squeegee / trowel to the required thickness. Confirm waiting /overcoating time has been achieved before applying subsequent products. Refer to individual Product Data Sheet.

Reinforced layer

Pour mixed Part A: Sikafloor® Pronto Resin and Part B: Sikafloor® Pronto Hardener onto prepared levelled substrate and spread evenly using a serrated trowel. Spike roller immediately in one direction to ensure an even thickness and to remove any entrapped air. Roll out the Sika® Reemat Premium (weight ~225g/m²) reinforcement fleece into the wet resin. Overlap all the reinforcement fleece joints by a minimum 50 mm. Remove any entrapped air bubbles using a lamb's wool fleece roller. Apply wet on wet, an encapsulation layer of Part A: Sikafloor® Pronto Resin and Part B: Sikafloor® Pronto Hardener, filled with Sikafloor®-Pronto Filler. Use a lamb's wool fleece roller or flat spatula to ensure full saturation of the reinforcement fleece with the mixed resin.

Slip-resistant broadcast layer

Pour mixed Sikafloor®-32 Pronto onto prepared substrate and spread evenly using a serrated trowel to the required thickness.

Spike roller immediately in two directions at right angles to each other to aid air release and ensure an even thickness. Immediately broadcast with quartz sand or silicon carbide, at first lightly and then to excess to produce an even distribution surface profile. Allow Sikafloor®-32 Pronto to initially cure and remove all loose sand by vacuum extraction equipment. A multi coloured surface can be obtained by broadcasting with coloured-quartz.

Seal / Top coat

After waiting the required overcoating time / curing, pour the mixed Sikafloor®-18 Pronto onto the slip resistant broadcast layer and spread evenly using a squeegee or short-pile nylon roller at the required consumption rate to completely encapsulate the sand. Then using a short-piled roller, back roller in two directions at right angles to each other. A seamless finish can be achieved if a 'wet' edge is maintained during application.

Self - smoothing wearing layer

Pour mixed Sikafloor®-32 Pronto onto prepared substrate and spread evenly using a suitable serrated trowel to the required thickness.

Spike roller immediately in two directions at right angles to each other to remove trowel marks, aid air release, ensure an even thickness and obtain the required surface finish. 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 material can only be removed mechanically.

FURTHER DOCUMENTS

- Sika Information Manual: Evaluation and Preparation of Surfaces for Flooring Systems
- Sika Information Manual: Mixing & Application of Flooring Systems
- Sika Information Manual: Sikafloor®-Cleaning Regime
- System Data Sheet: Sikafloor® Pronto RB-28
- System Data Sheet: Sikafloor® Pronto RB-58

LIMITATIONS

- Do not use on substrates with rising moisture.
- After application, all the products 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 Sika-floor®-32 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 suitable 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 must be removed from the area of the works during application. Do not apply in the presence of foodstuffs. Any foodstuffs, whether packaged or not, must 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 indentations in the resin.
- If temporary 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.

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.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) 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/CE, the maximum allowed content of VOC (product category IIA / j type sb) is 500 g/l (Limits 2010) for the ready to use product.

The maximum content of Sikafloor®-32 Pronto is ≤ 500 g/l VOC for the ready to use product.

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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Product Data Sheet

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