BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-15 Pronto

2-PART PMMA ELASTOMERIC BINDER FOR SELF-SMOOTHING SCREED AND LEVELLING MORTARS BASED ON REACTIVE ACRYLIC RESINS

PRODUCT DESCRIPTION

Sikafloor®-15 Pronto is a two part, fast curing, elastomeric self-smoothing binder based on reactive acrylic resins, which is part of the Sikafloor® Pronto RB-55 and Sikafloor® Pronto RB-25 systems.

USES

Sikafloor®-15 Pronto may only be used by experienced professionals.

- For fast curing mechanically and chemically resistant, elastomeric coatings with layer thickness of 2 to 4 mm
- Particularly suitable for the beverage and food industry
- For crack-bridging, trafficable, slip resistant wearing layers for multi-storey and underground car-parks
- Skid resistant and multi-coloured surfaces can be obtained by broadcasting with quartz sand or coloured quartz sand

CHARACTERISTICS / ADVANTAGES

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

APPROVALS / STANDARDS

- Certificate of conformity , 40893 U15 , Isega Germany, October 2015.
- Synthetic resin screed material according to EN 13813:2002, Declaration of Performance 02 08 01 05 008 0000005 1131, and provided with the CE marking.
- Coating for surface protection of concrete according to EN 1504-2:2004, Declaration of Performance 02 08 01 05 008 0000005 1131, certified by notified factory production control certification body 0921 certificate of conformity of the factory production control 1119, and provided with the CE marking.

PRODUCT INFORMATION

Chemical Base	Reactive acrylic resins	
Packaging	Part A: Sikafloor®-15 Pronto	25 kg containers 200 kg drums
	Part B: Sika®-Pronto Hardener	1.0 kg packs
	Sika®-Pronto Filler	25 kg packs
	Sika®-Pronto Pigment	5 kg packs (10 x 0.5 kg bags)
Appearance / Colour	Part A: Sikafloor®-15 Pronto	transparent, liquid
	Part B: Sika®-Pronto Hardener	white, powder
	Sika®-Pronto Filler	white, fine aggregates
	Sika®-Pronto Pigment	RAL 7032 other colours upon request

Shelf Life

From date of production:

Part A: Sikafloor®-15 Pronto	12 months
Part B: Sika®-Pronto Hardener	6 months
Sika®-Pronto Filler	for an unlimited period
Sika®-Pronto Pigment	2 Years

Storage Conditions

The packagings must 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

Compressive Strength

~ 25 N/mm² (Resin filled,14 days at +23 °C) (DIN 1164)

Flexural Strength

~ 15 N/mm² (Resin filled,14 days at +23 °C) (DIN 1164)

Elongation at Break

Resin filled (1:2)	~ 50 % (14 days / +23 °C)	(ISO 527)
Resin unfilled	~143 % (0 °C)	(DIN 53504)

Chemical Resistance

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

Thermal Resistance

Exposure*	**Dry heat**
Permanent	+40 °C
Short-term max. 2d	+50 °C
Short-term max. 1h	+60 °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®-11/-18 Pronto as a broadcast system with approx. 3 - 4 mm thickness.

SYSTEM INFORMATION

Systems

Please refer to the system Data Sheet of :

Sikafloor® Pronto RB-25	Elastomeric waterproofing system for flooring applications
Sikafloor® Pronto RB-55	Highly elastometic waterproofing system for flooring applications

APPLICATION INFORMATION

Mixing Ratio

Part A: Part C: Pigment = 12.5 : 25 : 1 (by weight)
The amount of Hardener required to be added on 12.5 kg Sikafloor®-15 Pronto is dependent on the ambient- and substrate temperature.

Temperature	Sika®- Pronto Hardener (% pbw)	Sikafloor®-Pronto Filler	Sika®-Pronto Pigment
+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 supplied by Sika under the product name "Perkadox CH 50 X“

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 info, please refer to the system data sheet Sikafloor® Pronto RB-25, Sikafloor® Pronto RB-27 and Sikafloor® Pronto RB-55.

Ambient Air Temperature

+5 °C min. / +30 °C 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.

Substrate Temperature

+5 °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).

Pot Life

Temperature	Time
+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®-15 Pronto allow:

Temperature	min.Time
+0 °C	~ 80 minutes
+10 °C	~ 60 minutes
+20 °C	~ 45 minutes
+30 °C	~ 30 minutes

Applied Product Ready for Use

Temperature	Foot traffic	Full cure
+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

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².
- The substrate can be damp but must be free of standing water and free of all contaminants such as oil, grease, coatings and surface treatments etc. If in doubt, apply a test area first.
- 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 blow holes 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.
- 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 Sikafloor®-Pronto Filler, and (if required) the Sika®-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®-15 Pronto must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.

APPLICATION

Prior to application, confirm substrate moisture content, 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.

Levelling:
Rough surfaces need to be levelled first. Therefore use e.g. Sikafloor®-15 Pronto or Sikadur®-12 Pronto levelling mortar (see PDS). Apply by squeegee / trowel to the required thickness.

Reinforced layer:
Sikafloor®-15 Pronto filled with Sikafloor®-Pronto Filler is poured, spread evenly by means of a serrated trowel. Roll immediately in one direction with a spiked roller to ensure even thickness and to remove entrapped air. Roll out Sika® Reemat Premium into the wet resin, ensuring the complete removal of entrapped air free using a lamb wool roller. Allow a minimum 50mm overlap on all joints of the reinforcement fleece. Apply wet on wet an encapsulation layer of Sikafloor®-15 Pronto filled with Sikafloor®-Pronto Filler using a lamb wool roller or flat spatula to ensure full saturation of the fleece.

Broadcast base coat:
Sikafloor®-15 Pronto is poured, spread evenly by means of a serrated trowel. Roll immediately in one direction with a spiked roller to ensure even thickness and to
remove entrapped air. Immediately afterwards, broadcast with quartz sand.

Note: Broadcast quartz sand in ca. three steps, which means the first couple of times broadcast slightly, then to excess in order to ensure an even distribution of quartz sand and to avoid misplacing of the material.
A multi coloured surface can be obtained by broadcasting with coloured-quartz.
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 application equipment with Thinner C immediately after use. Hardened and/or cured material can only be removed mechanically.

FURTHER DOCUMENTS

- **Substrate quality & Preparation**
  Please refer to Sika Information Manual: “EVALUATION AND PREPARATION OF SURFACES FOR FLOORING SYSTEMS”.
- **Application instructions**
  Please refer to Sika Information Manual: “MIXING & APPLICATION OF FLOORING SYSTEMS”.
- **Maintenance**
  Please refer to “Sikafloor®- CLEANING REGIME”.

LIMITATIONS

- Do not use Sikafloor®-15 Pronto on substrates with rising moisture. Freshly applied Sikafloor®-15 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®-15 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 (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.
- 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.

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 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®-15 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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