BUILDING TRUST

PRODUCT DATA SHEET

# Sikafloor®-18 Pronto

2-PART FLEXIBLE SEAL COAT FOR INTERNAL AND EXTERNAL AREAS BASED ON REACTIVE ACRYLIC RESINS

## PRODUCT DESCRIPTION

Sikafloor®-18 Pronto is a two part, fast curing, flexible seal coat based on reactive acrylic resins, which is part of the Sikafloor® Pronto RB-28 and Sikafloor® Pronto RB-58 systems.

## 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®-263 SL N 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 / 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 0000004 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 0000004 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®-18 Pronto | 25 kg containers<br>200 kg drums | |
| | Part B: Sika®-Pronto Hardener | 1.0 kg packs<br>(in 0.1 kg bags) | |
| | Sika®-Pronto Pigment | 5 kg packs<br>(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: RAL3003, RAL5010, RAL6010, RAL7016, RAL7031, | | |

White, Black.

**Shelf Life**

From date of production:

| | |
|---|---|
| Part A: Sikafloor®-18 Pronto | 12 months |
| Part B: Sika®-Pronto Hardener | 6 months |
| Sika®-Pronto Pigment | 2 years |

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

**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.

**Density**

~ 0.98 kg/l (at +23°C) (DIN 51 757)

**Solid Content**

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

## TECHNICAL INFORMATION

**Chemical Resistance**

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

**Thermal Resistance**

| Exposure* | Dry heat |
|---|---|
| Permanent | +50°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 or -15 or -32 / -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-28 | Crack bridging waterproofing system for flooring applications |
| Sikafloor® Pronto RB-58 | Highly Crack bridging waterproofing system for flooring applications |

## APPLICATION INFORMATION

**Mixing Ratio**

Part A: Pigment = 9 : 1 (by weight)
The amount of Hardener required to be added on 9 kg Sikafloor®-18 Pronto is dependent on the ambient- and substrate temperature.

| Temperature | 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 supplied by Sika under the product name "Perkadox CH 50 X“

**Consumption**

~ 0.6-0.8 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-28, Sikafloor® Pronto RB-58.

| | |
|---|---|
| **Ambient Air Temperature** | 0°C min. / +30°C max. |
| **Relative Air Humidity** | ~ 80% r.h. max. |
| **Dew Point** | Beware of condensation!<br>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**

| Temperature | Time |
|---|---|
| 0 °C | ~ 20 minutes |
| +10 °C | ~ 20 minutes |
| +20 °C | ~ 15 minutes |
| +30 °C | ~ 8 minutes |

**Curing Time**

Before overcoating Sikafloor®-18 Pronto allow:

| Temperature | min.Time |
|---|---|
| +0 °C | ~ 50 minutes |
| +10 °C | ~ 50 minutes |
| +20 °C | ~ 40 minutes |
| +30 °C | ~ 30 minutes |

**Applied Product Ready for Use**

| Temperature | Foot traffic | Full cure |
|---|---|---|
| +0 °C | ~ 50 minutes | ~ 2 hours |
| +10 °C | ~ 50 minutes | ~ 2 hours |
| +20 °C | ~ 40 minutes | ~ 1 hours |
| +30 °C | ~ 30 minutes | ~ 1 hours |

# APPLICATION INSTRUCTIONS

## SUBSTRATE QUALITY / PRE-TREATMENT

- 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.
- 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 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.
After that, mix part A and the obtained pigment paste with mixing ratio of 4 : 1 to get the final seal coat (overall content of Sika® Pronto Pigment in the final seal coat = 10%) for at least 3 minutes. Then, add the hardener in the correct quantity and mix for further 1 minute.
Over mixing must be avoided to minimise air entrainment. For easy of handling, 25 kg units may be split (please refer to mixing table).
Always weight out components.
**Mixing Tools:** For indoor work, spark-free mixing equipment must be used (explosion-proof)!

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 TOOLS

Clean all tools and application equipment with 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.

## 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

- 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.
- 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.

### 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 $CO_2$ and $H_2O$ 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®-18 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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