

PRODUCT DATA SHEET

Sikafloor® ProSeal-90

CURING AND SEALING COMPOUND FOR CONCRETE FLOORS

PRODUCT DESCRIPTION

Sikafloor® ProSeal-90 is a solvent based, clear, acrylic resin polymer solution used to cure, harden and seal fresh or hardened concrete.

USES

Sikafloor® ProSeal-90 may only be used by experienced professionals.

- Sikafloor® ProSeal-90 is used for optimum curing and sealing of fresh concrete floors and structures.
- Curing compound in order to limit surface drying and cracking.
- Provides curing and sealing for Sikafloor® dry shake hardeners (i.e. Sikafloor®-3 QuartzTop, Sikafloor®-2 SynTop, Sikafloor®-1 MetalTop and Sikafloor®-Fibre-Shield).
- Anti-dust treatment and improvement of the abrasion resistance of existing concrete surfaces.
- Suitable for exterior and interior application.

CHARACTERISTICS / ADVANTAGES

- Excellent moisture retention.
- Curing efficiency 90% (ASTM C-156).
- Good adhesion to old and new concrete.
- Quick drying.
- Helps control dusting for both new and existing concrete floor surfaces.
- Effectively cures and seals concrete surfaces in a single, economic operation.
- Non-yellowing.
- Easy application by spray or roller.

APPROVALS / STANDARDS

Conforms to the requirements of ASTM C-309 for curing liquids type 1, ASTM C-156 for water retention, and ASTM D-4060 for improvement of abrasion resistance.

Conforms to the requirements of EN 13813 SR – B 1.5. Test Report from GEOCISA Ref. P-02/01463-A Rev. 1 dated August 7, 2002 Abrasion resistance according to UNE 48.250-92 (ASTM D-4060).

Test Report from GEOCISA Ref. P-02/01463 dated June 7th, 2002 Water retention according to ASTM C-156. Epoxy textured roller and seal coat according to EN 13813:2002, DoP 01 08 03 04 005 0 000008 1049 and provided with the CE-mark.

PRODUCT INFORMATION

Chemical Base	Solvent based acrylic resin.
Packaging	25 l metal pails and 200 l metal drums.
Shelf Life	12 months from date of production, if stored properly in original, unopened and undamaged sealed containers, in dry conditions at temperatures between +5 °C and +25 °C.
Storage Conditions	Protect from frost.
Appearance / Colour	Clear Liquid

Density ~ 0.9 kg/l (at +20 °C)

Solid content by mass ~18% (by weight)

SYSTEM INFORMATION

APPLICATION INFORMATION

Consumption 0.1 - 0.25 l/m²/coat (4 - 10 m²/l/coat).
This figure is theoretical and does not include for any additional material required due to surface porosity, surface profile, variations in level and wastage, etc.

Ambient Air Temperature +10 °C minimum / +30 °C maximum

Relative Air Humidity 80% r.h. maximum

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 +10 °C minimum / +30 °C maximum

Curing Time Applied Product ready for use.

Substrate Temperature	+10 °C	+10 °C	+30 °C
Foot Traffic	~ 4 hours	~ 3 hours	~ 2 hours
Full Cure	~ 24 hours	~ 20 hours	~ 16 hours

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

Waiting Time / Overcoating Allow previous coats to become tack-free before applying additional coats.

Substrate Temperature	+10 °C	+20 °C	+30 °C
Time	~ 60 minutes	~ 25 minutes	~ 20 minutes

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

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.

LIMITATIONS

- In hot weather (i.e. above +25 °C), store Sikafloor® ProSeal-90 in a cool place prior to use.
- In low temperatures (i.e. below +10 °C), the Product may thicken and be difficult to spray.
- Do not use sprayers, which have been used to spray silicones or release agents.
- Do not mix differing formulations of Sika® or other curing membranes.
- Ensure spraying equipment is cleaned thoroughly before use and residues of previous membranes are removed.
- Sikafloor® ProSeal-90 must be removed prior to the application of a coating system.
- Sikafloor® ProSeal-90 increases abrasion resistance compared to C20/25 concrete, but will gradually degrade and be removed by environmental exposure conditions and trafficking.

- As Sikafloor® ProSeal-90 is a solvented Product, it may be unsuitable for application in confined spaces or areas with inadequate ventilation. Consideration should also be given to its use close to areas used for food preparation, etc., due to odour. If you are in need of guidance on the suitability of this Product for your site, please contact the Sika® Flooring Technical Team at flooring.technical@uk.sika.com.

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 EU-Directive 2004/42, the maximum allowed content of VOC (Product category IIA / Cat. H / Type sb) is, ready for use, 750 / 750 g/l (limit 2007/2010). The max. content of Sikafloor® ProSeal-90, ready for use, is >750 g/l VOC.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

Fresh Concrete:

Surface must be free of bleed water and of sufficient strength to withstand finishing operations. The concrete must be prepared by suitable power or manual floating / tamping techniques.

Hardened / Old Concrete:

The substrate must be prepared by suitable mechanical preparation techniques such as high-pressure water jetting or abrasive blastcleaning. All dust, loose and friable material must be completely removed from all surfaces before application of the Product, preferably by brush and / or vacuum. If in doubt, apply a test area first.

MIXING

Sikafloor® ProSeal-90 is supplied ready for use. Stir thoroughly before use for a minimum of 2 minutes using a low speed electric stirrer (~300 rpm).

APPLICATION

For fresh concrete, apply immediately after finishing techniques have been completed. Apply in a continuous even film by low-pressure spray unit. The suitability of spraying equipment must be confirmed by trials. Application is also possible by brush or roller. To achieve the highest visual aesthetics and performance, a second coat is recommended. Wait for the first coat to dry tack free before applying a second coat.

CLEANING OF TOOLS

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

MAINTENANCE

CLEANING

To maintain the appearance of the floor after application, Sikafloor® ProSeal-90 must have all spillages removed immediately and must be regularly cleaned using rotary brushes, mechanical scrubbers, scrubber dryers, high pressure washers, wash and vacuum techniques, etc., using suitable detergents and waxes.

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.

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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