Construction

Sikafloor® ProSeal-22

Curing and sealing compound for concrete floors

Product Description

Sikafloor® ProSeal-22 is a one part, solvent based, clear acrylic resin polymer solution used to cure, harden and seal fresh or hardened concrete.

Uses

- Sikafloor® ProSeal-22 is used for optimum curing and sealing of fresh concrete floors and structures
- Initial curing compound in order to limit surface drying and cracking
- Suitable for applications over surfaces with most dry shake floor hardeners
- Anti-dust treatment and improvement of the abrasion resistance of existing concrete surfaces
- Suitable for exterior and interior applications

Characteristics / Advantages

- Excellent moisture retention; meets requirements of ASTM C-309
- Helps control dusting
- Effectively cures and seals concrete surfaces in a single, economic operation
- Good abrasion resistance
- Quick drying
- Good adhesion to old and new concrete
- Easy application by spray or roller

Tests

Approval / Standards

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

Test report from GEOCISA Ref. P-02/01 466-A dated August 7, 2002
Abrasion resistance according to UNE 48.250-92 (ASTM D-4060).

Test report from GEOCISA Ref. P-02/01466 dated June 20, 2003
Water retention according to ASTM C-156.

Product Data

Form

Appearance / Colours	Clear liquid
Packaging	20 ltr pails and 200 ltr metal drums

Storage

Storage Conditions / 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. Keep away from direct sunlight.

Technical Data

Chemical Base	Solvent based acrylic resin
Density	~ 0.9 kg/l (at +20°C)

Curing Efficiency (ASTM C-156)

	Loss of water g/100 cm^2	Loss of water compared to ASTM C-309 (100% = 5.5g / 100cm^2)	Loss of water compared to untreated concrete (100% = 18.7g / 100cm^2)
Sikafloor® ProSeal-22	4.67	85%	25%

Solid Content	~ 22% (by weight)

Mechanical / Physical Properties

Abrasion Resistance	5,496 mg (UNE 48250-92 equivalent to ASTM D-4060) Taber Abrader H-22 wheel, 1,000 gr, 1,000 cycles

Resistance

Chemical Resistance	The product is not intended for chemical exposure

System Information

System Structure	All applications: 1 - 2 coats

Application Details

Consumption / Dosage	0.1 - 0.2 ltr/m^2/coat (5 - 10 m^2/ltr/coat) To conform to ASTM C-309, ensure a total of 0.2 ltr/m^2 is applied. 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.
Substrate Quality	*Fresh concrete:* Surfaces must be free of bleed water and of sufficient strength to withstand finishing operations. *Hardened / old concrete:* Surfaces must be sound, open textured, clean, free from frost, laitance, surface water, oils, grease, coatings, all loosely adhering particles and other surface contaminants. If in doubt apply a test area first.
Substrate Preparation	*Fresh concrete:* 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 or abrasive blasting cleaning equipment. All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.

Application Conditions / Limitations

Substrate Temperature	+10°C min. / +30°C max.
Ambient Temperature	+10°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.

Application Instructions

Mixing	Sikafloor® ProSeal-22 is supplied ready for use. Stir thoroughly before use.
Mixing Time	2 minutes
Mixing Tools	Electric stirrer with low speed (~ 300 rpm)
Application Method / Tools	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 also possible by brush or roller. To achieve the highest visual aesthetics and performance, a second coat is recommended. Wait for first coat to dry tack free before applying second coat.
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.
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 ambient conditions, particularly temperature and relative humidity.

Notes on Application / Limitations	In hot weather (above +25°C) store Sikafloor® ProSeal-22 in a cool place prior to use. In low temperatures (below +10°C) the product may thicken and reduce sprayability. 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-22 must be mechanically removed prior to the application of a coating system. Sikafloor® ProSeal-22 increases abrasion resistance compared to C25 concrete, but will gradually degrade and be removed by environmental exposure conditions and trafficking. Do not use outside over white and non absorbent substrates, as some yellowing may be perceptible.

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Curing Details

Applied Product ready for use

Substrate temperature	+10°C	+20°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.

Protective Measures

During application in closed rooms, pits and shafts, etc., sufficient ventilation must be provided.

Sikafloor® ProSeal®-22 is flammable. Keep away from open light including welding.

Use of basic principles of industrial hygiene, such as rubber gloves, goggles and protective clothing will enable this product to be used safely. Change soiled work clothes and wash hands before eating and after finishing work.

Local regulations as well as health and safety advice on packaging labels must be observed.

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.

Health and Safety Information

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 (available upon request) containing physical, ecological, toxicological and other safety-related data.

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.

EU Regulation 2004/42

VOC - Decopaint Directive

According to the EU-Directive 2004/42, the maximum allowed content of VOC Product category IIA / **h** type **sb**) is750 / 750 g/ltr (Limits 2007 / 2010), for the ready to use product.

The maximum content of **Sikafloor® ProSeal-22**, is < 750 g/ltr VOC for the ready to use product.

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