

PRODUCT DATA SHEET

Sikafloor® ProSeal-22

CURING AND SEALING COMPOUND FOR CONCRETE FLOORS

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
- 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 application

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
- Non yellowing
- Good adhesion to old and new concrete
- Easy application by spray or roller

APPROVALS /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 Abrasio 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 INFORMATION

Chemical Base	Solvent based, clear acrylic resin.
Packaging	20 L metal pails and 200 L metal drums.
Appearance / Colour	Clear liquid
Shelf Life	12 months from date of production if stored properly in original, unopened and undamaged sealed container.
Storage Conditions	Stored in dry conditions at temperatures between +5 °C and +25 °C.
Density	~0.9 kg/L (at +20 °C)
Solid content by weight	~22%

TECHNICAL INFORMATION

Abrasion Resistance	5 496 mg Taber Abraser H-22 wheel, 1000 gr, 1000 cycles (UNE 48250-92 equivalent to ASTM D-4060)
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Chemical Resistance	The product is not intended for chemical exposure
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Curing Efficiency	Loss of water g/100 cm ²	Loss of water compared to ASTM C309 (100% = 5.5 g/100 cm ²)	Loss of water compared to untreated concrete (100% = 18.7 g/100 cm ²)
	Sikafloor Proseal-22	4.67 85 %	25 %

SYSTEM INFORMATION

System Structure	Curing compound 1 - 2 coats
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APPLICATION INFORMATION

Consumption	0.1 - 0.2 L/m ² /coat (5 - 10 m ² /L coat) To conform to ASTM C-309, ensure a total of 0.2 L/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.
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Ambient Air Temperature	+10 °C / +30 °C
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Relative Air Humidity	80 % r.h max.
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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.
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Substrate Temperature	+10 °C / +30 °C
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Curing Time	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.

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.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

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.

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

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 / cured material can only be mechanically removed.

LIMITATION

- 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 spray ability.
- 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.

BASIS OF PRODUCT DATA

All technical data stated in this 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 declared data and recommended uses for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

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

Sika Proseal 22 is flammable. Keep away from open light including welding.

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.

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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