

Sikafloor®-ProSeal W

Water dispersed curing and sealing
compound for concrete floors

Product Description

Sikafloor®-ProSeal W is a one part water dispersed acrylic emulsion to cure, harden and seal fresh or hardened concrete.

Uses

- n** Sikafloor®-ProSeal W is used for optimum curing and sealing of fresh concrete floors and structures
- n** Curing compound in order to limit surface drying and cracking
- n** Provides curing and sealing for Sikafloor® dry shake hardeners
- n** Anti-dust treatment and improvement of the abrasion resistance of existing concrete surfaces
- n** Suitable for exterior and interior application

Characteristics / Advantages

- n** Excellent moisture retention; meets requirements of ASTM C-309
- n** Water dispersion
- n** Suitable for indoor use where solvent-based products cannot be applied because of health and safety regulations
- n** Helps control dusting for both new and existing concrete floor surfaces
- n** Effectively cures and seals concrete surfaces in a single, economic operation
- n** Non yellowing
- n** Easy application by spray or roller

Tests

Approval / 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-02/01461-A dated July 10, 2002
Abrasion resistance according to UNE 48.250-92 (ASTM D-4060)

Test report from GEOCISA Ref. P-02/01461 dated Jan. 9, 2003
Water retention according to ASTM C-156

Product Data

Form

Appearance / Colours

White liquid, clear when cured.

Packaging

25 l plastic jerry cans and 200 l 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 +30°C. Protect from frost.

Technical Data

Chemical Base Water dispersed acrylic emulsion.

Density ~ 1.0 kg/l (at +20°C)

Curing Efficiency (ASTM C - 156)

| | 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 W | 3.36 | 61% | 18% |

Solid Content ~ 16% (by weight)

Mechanical / Physical Properties

Bond Strength > 1.5 N/mm² (UNE - EN 13892-8)
Substrate cohesive both on wet and dry substrate

Abrasion Resistance 9380 mg (UNE 48250-92 equivalent to ASTM D 4060)
Taber Abraser H-22 wheel, 1000 gr, 1000 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 l/m²/coat. (5 - 10 m²/l/coat)
To conform with ASTM C-309, ensure a total of 0.2 l/m² 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:
Surface 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, oil, 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 blast 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 W 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 a second coat. |

Cleaning of Tools Clean all tools and application equipment with water immediately after use. Hardened / 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 | ~ 90 minutes | ~ 45 minutes | ~ 40 minutes |

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

Notes on Application / Limitations

In hot weather (above +25°C) store Sikafloor®-ProSeal W in a cool place prior to use.

In low temperatures (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 W must be removed prior to the application of a coating system.

Sikafloor®-ProSeal W increases abrasion resistance compared to C25 concrete, but will gradually de-grade and be removed by environmental exposure conditions and trafficking.

Not recommended for concrete floors with metallic dry shake hardeners.

Do not use outside over white and non absorbent substrates, as some yellowing may be perceptible.

Curing Details

Applied Product ready for use

| | | | |
|-----------------------|------------|------------|------------|
| Substrate temperature | +10°C | +20°C | +30°C |
| Foot traffic | ~ 16 hours | ~ 8 hours | ~ 6 hours |
| Full cure | ~ 24 hours | ~ 20 hours | ~ 16 hours |

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

Cleaning / Maintenance

Methods

To maintain the appearance of the floor after application, Sikafloor®-ProSeal® W 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.

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.

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 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.

CE Labelling

The harmonized European Standard EN 13 813 „Screed material and floor screeds - Screed materials - Properties and requirements“ specifies requirements for screed materials for use in floor construction internally.

Structural screeds or coatings, i.e. those that contribute to the load bearing capacity of the structure, are excluded from this standard.

Resin floor systems as well as cementitious screeds fall under this specification. They have to be CE-labelled as per Annex ZA. 3, Tables ZA. 1.1 or 1.5 and Z.A. 3.3 and fulfil the requirements of the given mandate of the Construction Products Directive (89/106):

| | |
|--|-------------------|
| CE | |
| Sika S.A. Crtra. de Fuencarral, 72 Pol. Ind. Alcobendas 28108 Alcobendas Madrid, Spain | |
| 06 ¹⁾ | |
| EN 13813 SR - B 1.5 | |
| Astar/Sealer (systems as per Product Data Sheet) | |
| Reaction to fire: | NPD ²⁾ |
| Release of corrosive substances (S ynthetic R esin S creed): | SR |
| Water permeability: | NPD |
| A brasion R esistance: | NPD |
| B ond strength: | B 1,5 |
| I mpact R esistance: | NPD |
| Sound insulation: | NPD |
| Sound absorption: | NPD |
| Thermal resistance: | NPD |
| Chemical resistance: | NPD |

¹⁾ Last two digits of the year in which the marking was affixed.

²⁾ No performance determined.

EU Regulation 2004/42**VOC - Decopaint Directive**

According to the EU-Directive 2004/42, the maximum allowed content of VOC Product category IIA / i type **wb**) is 140 / 140 g/l (Limits 2007 / 2010), for the ready to use product.

The maximum content of **Sikafloor®-ProSeal W**, is < 140 g/l VOC for the ready to use product.



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