

Sikafloor®-ColourSeal

Coloured Curing and Sealing Compound for Concrete Floors

Product Description

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

Uses

- **Sikafloor®-ColourSeal** 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
- 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
- Economic coloured coating material

Characteristics / Advantages

- Excellent moisture retention; meets requirements of ASTM C-309
- Helps control dusting for both new and existing concrete floor surfaces
- Effectively cures and seals concrete surfaces in a single, economic operation
- Good abrasion resistance
- Quick drying
- Coloured
- Non yellowing
- Good adhesion to old and new concrete
- 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.

Test report from GEOCISA Ref. P-02/01643 dated Jan. 9, 2003

Abrasion resistance according to UNE 48.250-92 (ASTM D-4060).

Test report from GEOCISA Ref. P-03/01659 dated Jan. 20, 2003

Water retention according to ASTM C-156.

Product Data

Form

Appearance / Colours

Liquid

White (~ RAL 9010), Grey (~ RAL 7004), Dark Grey (~ RAL 7043), Yellow (~ RAL 1012), Green (~ RAL 6019), Beige (~ RAL 1002), Red (~ RAL 3011).

All colour references are approximate as shade may vary depending on application conditions.

Other colour shades are available on request.



Packaging 25 lt metal drums

Storage

Storage Conditions / Shelf Life 12 months from date of production if stored in original, unopened and undamaged sealed packaging in dry conditions, at temperatures between +5°C and +25°C.

Technical Data

Chemical Base Solvent based acrylic resin

Density (@ 20° C) ~ 1.1 kg/lt

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®-ColourSeal	1.85	34%	10%

Solid Content ~ 40% (by weight)

Mechanical / Physical Properties

Abrasion Resistance 3178 mg (UNE 48250-92 / ASTM D 4060)
Taber Abrader 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 - 0.2lt/m²/coat (5-10 m²/lt coat)
To conform to ASTM C-309, ensure a total of 0.2lt/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, 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 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®-ColourSeal** 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 airless 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 Thinner C immediately after use. Hardened / cured material can only be mechanically removed.

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

Substrate temperature	+10°C	+20°C	+30°C
Time	~ 50 minutes	~ 25 minutes	~ 20 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®-ColourSeal** in a cool place prior to use.

In low temperatures (below +15°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®-ColourSeal must be removed prior to the application of a coating system.

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

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.

Cleaning / Maintenance

Methods To maintain the appearance of the floor after application, Sikafloor® -ColourSeal 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.

Notes 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 should refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

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

The maximum content of **Sikafloor®-ColourSeal**, is < 750 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 should 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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