

Sikafloor®-ColourSeal UK VP1

Coloured curing and sealing compound for concrete floors

Product Description

Sikafloor®-ColourSeal UK VP1 is a one part, coloured solvent based acrylic resin polymer solution used to cure, harden and seal fresh or hardened concrete.

Uses

- Sikafloor®-ColourSeal UK VP1 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.

Construction



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 shade are available on request.
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Packaging	25 l metal drums
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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.
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Technical Data

Chemical Base	Solvent based acrylic resin
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Density	~ 1.1 kg/l (at +20°C)
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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 UK VP1	1.85	34%	10%

Solid Content	~ 40% (by weight)
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Mechanical / Physical Properties

Abrasion Resistance	3178 mg Taber Abrader H-22 wheel, 1000 gr , 1000 cycles	(UNE 48250-92 / ASTM D 4060)
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Resistance

Chemical Resistance	The product is not intended for chemical exposure.
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System Information

System Structure	All applications 1 - 2 coats.
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Application Details

Consumption / Dosage	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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Substrate Quality	<i>Fresh concrete:</i> Surface must be free of bleed water and of sufficient strength to withstand finishing operations. <i>Hardened / old concrete:</i> 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.
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Substrate Preparation	<p><i>Fresh concrete:</i> The concrete must be prepared by suitable power or manual floating/tamping techniques.</p> <p><i>Hardened / old concrete:</i> The substrate must be prepared by suitable mechanical preparation techniques such as high pressure water or abrasive blast cleaning equipment.</p> <p>All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush and/or vacuum.</p>
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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	<p>Beware of condensation!</p> <p>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.</p>

Application Instructions

Mixing	Sikafloor®-ColourSeal UK VP1 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	<p>For fresh concrete, apply immediately after finishing techniques have been completed.</p> <p>Apply in a continuous even film by airless spray unit. The suitability of spraying equipment must be confirmed by trials.</p> <p>Application is also possible by brush or roller.</p> <p>To achieve the highest visual aesthetics and performance, a second coat is recommended.</p> <p>Wait for the first coat to dry tack free before applying a second coat.</p>

Cleaning of Tools	Clean all tools and application equipment with Thinner C immediately after use. Hardened / cured material can only be mechanically removed.
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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	<p>In hot weather (above +25°C) store Sikafloor®-ColourSeal UK VP1 in a cool place prior to use.</p> <p>In low temperatures (below +15°C) the product may thicken and be difficult to spray.</p> <p>Do not use sprayers, which have been used to spray silicones or release agents.</p> <p>Do not mix differing formulations of Sika® or other curing membranes.</p> <p>Ensure spraying equipment is cleaned thoroughly before use and residues of previous membranes are removed.</p> <p>Sikafloor®-ColourSeal UK VP1 must be removed prior to the application of a coating system.</p> <p>Sikafloor®-ColourSeal UK VP1 increases abrasion resistance compared to C25 concrete, but will gradually de-grade and be removed by environmental exposure conditions and trafficking.</p>
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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.

Cleaning / Maintenance

Methods

To maintain the appearance of the floor after application, Sikafloor® -ColourSeal UK VP1 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

Protective Measures

During application and curing in closed rooms, pits and shafts etc., adequate fresh air ventilation must be provided. Keep away from open flames including welding.

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

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

Ecology

Refer to Material Safety Data Sheet.

Transportation Class

Refer to Material Safety Data Sheet.

Important Notes

Uncured material must be disposed according to local regulations. Fully cured material can be disposed of as household waste under agreement with the responsible local authorities.

Detailed health and safety information as well as detailed precautionary measures e.g. physical, toxicological and ecological data can be obtained from the material safety data sheet.

Toxicity

Refer to Material Safety Data Sheet.

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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