

Product Data Sheet
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Sikafloor®-2020

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1-part water dispersed coloured acrylic coating

Product Description Sikafloor®-2020 is a one part, water dispersed, coloured acrylic seal coat.

Uses Sikafloor®-2020 is used to provide a dust free, decorative finish for indoor and outdoor concrete floors and cementitious surfaces in general (without permanent water exposure) in:

- n Garages and parking areas with light traffic
 - n Residential access, sidewalks, traffic islands etc.
 - n Tennis courts, playgrounds and recreational areas
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Characteristics / Advantages

- n Water dispersed, single component
- n Good abrasion resistance
- n Very good resistance to UV light. No discolouration
- n Resistant to petrol and oil spills
- n Good opacity (hiding power)
- n Improved strength and flexibility

Tests

Approval / Standards All values indicated are internal test results.
Conforms to the requirements of EN 13813 SR - B1.5.

Product Data

Form

Appearance / Colours Liquid
Oxide red (~ RAL 3009), dark grey (~ RAL 7030), dark green (~ RAL 6010).
All colour references are approximate as shade may vary dependent on application conditions. Other colour shades are available on request.

Packaging 15 litre oval plastic pails.

Storage

Storage Conditions / Shelf Life 12 months from date of production if stored in original, unopened and undamaged packaging in dry conditions, at temperatures between +5°C and +30°C.
Protect from frost.

Construction



Technical Data

Chemical Base	Water dispersed acrylic resin.
Density	~ 1.56 kg/l (at +20°C)
Solid Volume	~ 44%
Solid Content	~ 44% (by volume) / ~ 64% (by weight)
Layer Thickness	~ 120 microns D.F.T for two coats (primer + coating)

Mechanical / Physical Properties

Tensile Strength	2.28 MPa	(UNE - EN - ISO 527)
Bond Strength	> 1.5 N/mm ² (100% cohesive product failure (Y))	(EN 13892-8)
Elongation at Break	20.3 %	(UNE - EN - ISO 527)
Scratch Resistance	> 2000 gr	(ISO 1518)
Abrasion Resistance	209 mg (16 days / +23°C) (Taber Abrader CS10 / 1000 g / 1000 c)	(UNE 48250-92 / ASTM D 4060)

Resistance

Chemical Resistance	Resistant to many chemicals. Please ask for a detailed chemical resistance table.
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System Information

System Structure	All applications 2 - 3 coats. On porous substrates, it is advisable that the first coat be diluted with 10 wt.-% of water and that pores are well sealed with the coating. In general two coats are sufficient, but dependent on the porosity of the substrate or on coloured substrates a third coat may be required.
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Application Details

Consumption / Dosage	~ 0.12 - 0.15 l/m ² /coat (~ 0.20 - 0.25 kg/m ² /coat) Consumption is dependent on substrate conditions such as permeability, profile, roughness and wastage etc.
Coverage	~ 6.7 - 8.3 m ² /l/coat (4.0 - 5.0 m ² /kg/coat)
Substrate Quality	The substrate must be sound and of sufficient compressive strength (minimum 25 N/mm ²) with a minimum pull off strength of 1.5 N/mm ² . The substrate must be dry and free of all contaminants such as oil, grease, coatings and surface treatments, etc. If in doubt, apply a test area first.
Substrate Preparation	Concrete substrates must be prepared mechanically using abrasive blast cleaning or scarifying equipment to remove cement laitance and achieve an open textured surface. Weak concrete must be removed and surface defects such as blow holes and voids must be fully exposed. Repairs to the substrate, filling of blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor [®] , SikaDur [®] and Sikagard [®] range of materials. High spots must be removed by grinding. 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.
Substrate Moisture Content	< 6% by weight Test method: Sika®-Tramex meter, CM - measurement or Oven-dry-method. No rising moisture according to ASTM D 4263 (Polyethylene sheet test). Always confirm substrate moisture content prior to the application.
Relative Air Humidity	80% r. h. max.
Dew Point	Beware of condensation! The substrate and uncured floor temperature must be at least 3°C above the dew point to reduce the risk of condensation or blooming on the floor finish.

Application Instructions

Mixing	Sikafloor®-2020 is supplied ready for use and only has to be thoroughly stirred.
Mixing Time	2 minutes
Mixing Tools	Sikafloor®-2020 must be thoroughly mixed using a low electric speed stirrer (300 - 400 rpm) or other suitable equipment.

Application Method / Tools	Application can be done using a short or medium pile roller or by brush. An air-less spray unit can also be used. The suitability of spraying equipment must be confirmed by trials. To achieve the best visual appearance and performance, a second coat is always recommended. See "Waiting Time / Overcoating" for second coat application.
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Cleaning of Tools	Clean all tools and application equipment with water immediately after use. Hardened and/or cured material can only be removed mechanically.
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Waiting Time / Overcoating	Before applying Sikafloor®-2020 over Sikafloor®-2020, allow previous coats to become tack free.
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Substrate temperature	Minimum time	Maximum time
+10°C	30 minutes	7 days
+20°C	10 minutes	5 days
+30°C	5 minutes	5 days

Times are approximate for a cementitious substrate and standard lab conditions and will be affected by changing substrate and ambient conditions.

Notes on Application / Limitations

During application and throughout complete hardening, ambient and substrate temperature must be above +10°C.

The maximum relative humidity must not be greater than 80%.

During application in closed spaces, adequate fresh air ventilation must be provided to remove excess moisture.

Sikafloor® -2020 must not be permanently immersed. Do not allow water to accumulate or puddles to remain on the surface.

Sikafloor®-2020 must be protected from damp, condensation and water for at least 24 hours after application.

Avoid puddle formation and excessive thicknesses of Sikafloor®-2020.

The amount of gloss of the surface can be affected by the application conditions (temperature and humidity) and the degree of absorption of the substrate.

If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO₂ and H₂O water vapour, which may adversely affect the finish. For heating use only electric powered warm air blower systems.

Curing Details

Applied Product ready for use

Substrate temperature	Foot traffic	Full cure
+10°C	~ 12 hours	~ 24 hours
+20°C	~ 3 hours	~ 12 hours
+30°C	~ 1 hour	~ 8 hours

Note: Full cure 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®-2020 must have all spillages removed immediately and be regularly cleaned using a broom, sweeper or vacuum. Do not use wet cleaning methods until at least two weeks after application.

Do not use abrasive cleaning systems or equipment.

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 should 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	
05 ¹⁾	
EN 13813 SR - B 1.5	
Primer/Sealer (systems as per Product Data Sheet)	
Reaction to fire:	NPD ²⁾
Release of corrosive substances (Synthetic Resin Screed):	SR
Water permeability:	NPD
Abrasion Resistance:	NPD
Bond strength:	B 1,5
Impact Resistance:	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 300 / 200 g/l (Limits 2007 / 2010 for the ready to use product).

The maximum content of **Sikafloor®-2020** is < 200 g/l VOC for the ready to use product.



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