

**Product Data Sheet**  
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Sikafloor®-105

# Sikafloor®-105

## 2-part epoxy coloured sealing coat

### Product

#### Description

Sikafloor®-105 is a two part, low solvented, coloured, epoxy resin based seal coat.

#### Uses

- Coloured seal coat for concrete, cementitious screeds and mortars
- Can be subjected to normal up to medium heavy mechanical and chemical loading
- For production areas, workshops, warehouses, etc.

#### Characteristics / Advantages

- Good chemical and mechanical resistance
- Easy application

### Product Data

#### Form

##### Appearance / Colours

Resin - Part A: coloured, liquid  
Hardener - Part B: transparent, liquid

Available in select ~RAL colour shades (Please refer Sikafloor® shade card).

Under direct sun radiation there may be some discolouration and colour deviation, this has no influence on the function and performance of the coating.

##### Packaging

Part A: 3.5 kg x 2 containers  
Part B: 0.5 kg x 2 containers  
Part A+B: 4.0 kg x 2 ready to mix units

#### Storage

##### Storage Conditions / Shelf-Life

12 months from date of production if stored properly in original, unopened and undamaged sealed packaging, in dry conditions at temperatures between +5°C and +30°C.

### Technical Data

#### Chemical Base

Epoxy

#### Density

Part A: ~1.15 kg/l  
Part B: ~1.04 kg/l  
Mixed resin: ~1.13 kg/l  
All density values at +27°C

#### Solid Content

~ 64% (by weight)

Construction



## Mechanical / Physical Properties

**Abrasion Resistance**      Thickness loss 0.06 mm      (According to IS 1237-1980 and IS 9162-1979)

## Resistance

### Thermal Resistance

Exposure*	Dry heat
Permanent	+50°C

\*No simultaneous chemical and mechanical exposure.

## System Information

### System Structure

*Seal coat for normal exposed surfaces:*

Primer:                    1 x Sikafloor®-105 + 5 % Sika® Thinner DS by weight /  
Sikafloor®-93 EC Primer  
Seal coat:                1 x Sikafloor®-105

*Seal coat for heavier exposed surfaces:*

Primer:                    1 x Sikafloor®-105 + 5 % Sika® Thinner DS by weight /  
Sikafloor®-93 EC Primer  
Seal coat:                2 x Sikafloor®-105

## Application Details

### Consumption / Dosage

Coating System	Product	Consumption
Primer	Sikafloor®-105 + 5 % Sika® Thinner DS by weight / Sikafloor®-93 EC Primer	0.15 - 0.20 kg/m <sup>2</sup>
Seal coat normally exposed	1 x Sikafloor®-105	0.15 - 0.20 kg/m <sup>2</sup>
Seal coat heavier exposed	2 x Sikafloor®-105	0.15 - 0.20 kg/m <sup>2</sup> /layer

These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level and wastage etc.

### Substrate Quality

The concrete substrate must be sound and of sufficient compressive strength (minimum 20 N/mm<sup>2</sup>) with a minimum pull off strength of 1.5 N/mm<sup>2</sup>.

The substrate must be clean, dry and free of all contaminants such as dirt, 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, scarifying or grinding equipment to remove cement laitance and achieve a profiled open textured surface.

Weak concrete must be removed and surface defects such as blowholes and voids must be fully exposed.

Repairs to substrate, filling of blowholes/voids and surface levelling can be carried out using appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials.

The concrete or screed substrate has to be primed or levelled up in order to achieve an even surface.

High spots must be removed by e.g. 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

<b>Substrate Temperature</b>	+8°C min. / +35°C max.
<b>Ambient Temperature</b>	+8°C min. / +35°C max.
<b>Substrate Humidity</b>	≤ 4% moisture content. Test method: Sika-Tramex meter or CM-measurement. No rising moisture according to ASTM (Polyethylene-sheet).
<b>Relative Air Humidity</b>	80% r.h. max.
<b>Dew Point</b>	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

<b>Mixing</b>	Part A : Part B = 7 : 1 (by weight)				
<b>Mixing Time</b>	Prior to mixing stir part A mechanically. When all of part B has been added to part A, continuously mix for 2 minutes until a uniform mix has been achieved.  To ensure thorough mixing pour materials into another container and mix again to achieve a consistent mix.  Over mixing must be avoided to minimize air entrainment.				
<b>Mixing Tools</b>	Sikafloor®-105 must be mechanically mixed using an electric power stirrer (300 - 400 rpm) or other suitable equipment.				
<b>Application Method / Tools</b>	Prior to application, confirm substrate moisture content, relative humidity and dew point.  If > 4% moisture content, Sikafloor® EpoCem® may be applied as a Temporary Moisture Barrier (TMB) system.  <i>Primer:</i> Make sure that a continuous, pore free coating covers the substrate.  <i>Seal coat:</i> Sikafloor®-105 is spread evenly using a short pile roller.  A seamless finish can be achieved if a "wet" edge is maintained during application.				
<b>Cleaning of Tools</b>	Clean all tools and application equipment with Sika® Colma Cleaner or suitable thinner immediately after use. Hardened / cured material can only be mechanically removed.				
<b>Potlife</b>	4 kg mass <table border="1"><thead><tr><th>Temperatures</th><th>Time</th></tr></thead><tbody><tr><td>+30°C</td><td>~ 1 hour</td></tr></tbody></table>	Temperatures	Time	+30°C	~ 1 hour
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+30°C	~ 1 hour				

## Waiting Time / Overcoatability

Before applying Sikafloor®-105 on Sikafloor®-105 allow:

Substrate temperature	Minimum	Maximum
+10°C	36 hours	4 days
+20°C	24 hours	2 days
+30°C	16 hours	1 day

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

## Notes on Application / Limitations

Do not apply Sikafloor®-105 on substrates in which significant vapour pressure may occur.

Freshly applied Sikafloor®-105 must be protected from damp, condensation and water for at least 24 hours.

Avoid puddles on the surface with the primer.

For external applications, apply on a falling temperature. If applied during rising temperatures "pin holing" may occur from rising air.

The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.

For exact colour matching, ensure the Sikafloor®-105 in each area is applied from the same control batch numbers.

## Curing Details

### Applied Product ready for use

Temperature	Foot traffic	Light traffic	Full cure
+30°C	~ 16 hours	~ 2 days	~ 7 days

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

## Cleaning / Maintenance

### Methods

To maintain the appearance of the floor after application, Sikafloor®-105 must have all spillages removed immediately and must be regularly cleaned using rotary brush, mechanical scrubbers, scrubber dryer, high pressure washer, 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.

## 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.

## Transportation Class

Users shall refer to the most recent 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.

