

## Sikafloor®-354

### 2-Part Tough-elastic Coloured Epoxy Seal Coat

Construction

**Product Description** Sikafloor®-354 is a two-part, tough-elastic, coloured, solvent free, epoxy seal coat. Suitable for use in hot and tropical climates.

**Uses**

- Abrasion resistant seal coat with high mechanical resistance for broadcast systems with crack-bridging properties in industrial flooring
- Particularly suitable for car park decks, ramps and warehouses etc.

**Characteristics / Advantages**

- Tough-elastic
- High abrasion resistance
- Good mechanical and chemical resistance
- Watertight
- Good hiding power
- Solvent free
- Easy application

#### Test

**Approval / Standards** Conforms to the German Standard DafStb Rili-SIB 2001 OS 11a, Report-No. P 3600-1, and OS 13, Report-No. P 2012-7, Polymer Institute, Germany, Aug. 2004.

Conforms to the requirements of German Standard BGR 181 and DIN 51130 for Class R13/V6-8 (Skid/Slip resistance), Report-No. 200422192/3210, BIA, Germany, Jul. 2004.

Conforms to the requirements of DIN 4101-1/14 for Class B1 (combustibility classification for floorings), Report-No. 16-9005528000b, FMPA Stuttgart, Germany, May 2004.

#### Product Data

**Form** Liquid

**Appearance / Colours** Resin - part A: coloured liquid  
Hardener - part B: transparent liquid  
Almost unlimited choice of colour shades.  
Under direct sun radiation there may also be some discolouration and colour deviation; this has no influence on the function and performance of the coating.

**Packaging**

Part A:	21.25 kg
Part B:	3.75 kg
Part A+B:	25.00 kg 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

<b>Chemical Base</b>	Epoxy	
<b>Density (at +23°C)</b>	Part A: ~ 1.73 kg/lit Part B: ~ 1.05 kg/lit Mixed Resin: ~ 1.6 kg/lit	(DIN EN ISO 2811-1)
<b>Solid Content</b>	~ 100% (by volume) / ~ 100% (by weight)	

## Mechanical / Physical Properties

<b>Shore D Hardness</b>	60 (14 days / +23°C)	(DIN 53505)
<b>Abrasion Resistance</b>	75 mg (CS 10/1000/1000) (8 days / +23°C)	(DIN 53109 Taber Abrader Test)

## Resistance

**Chemical Resistance** Resistant against many chemicals. Please ask for a detailed chemical resistance table.

### Thermal Resistance

Exposure*	Dry heat
Permanent	+50°C
Short-term max. 7 days	+80°C
Short-term max. 12 hours	+100°C

Short-term humid heat\* up to +80°C where exposure is only occasional (steam cleaning etc.).

\*No simultaneous chemical and mechanical exposure.

## System Information

### System Structure

Sealing of EP / PUR broadcast systems:

Base coat: e.g. Sikafloor®-261 / -325 + quartz sand  
Seal coat: 1 x **Sikafloor®-354**

Car park deck systems (acc. DAFStb Rili-SIB 2001):

#### Classification OS 11a:

Primer: Sikafloor®-156 lightly broadcast with quartz sand 0.4 - 0.7 mm  
Base coat: Sikafloor®-350 Elastic  
Wearing course: Sikafloor®-355 N (filled with 20% quartz sand 0.1 - 0.3 mm)  
Broadcast to excess with quartz sand 0.7 - 1.2 mm  
Seal coat: **Sikafloor®-354**

#### Classification similar to OS 11b:

Primer: Sikafloor®-156 lightly broadcast with quartz sand 0.4 - 0.7 mm  
Wearing course: Sikafloor®-350 Elastic (filled with 20% quartz sand 0.1 - 0.3 mm)  
Broadcast to excess with quartz sand 0.7 - 1.2 mm  
Seal coat: **Sikafloor®-354**

#### Classification OS 13:

Primer: Sikafloor®-156 lightly broadcast with quartz sand 0.4 - 0.7 mm  
Wearing course: Sikafloor®-355 N broadcast to excess with quartz sand 0.4 - 0.7 mm  
Seal coat: **Sikafloor®-354**

## Application Details

### Consumption / Dosage

Coating System	Product	Consumption
Seal coat for EP / PUR broadcast systems	<b>Sikafloor®-354*</b>	0.7 - 0.9 kg/m <sup>2</sup>

#### Car park system similar to OS 11a

Coating System	Product	Consumption
Primer (lightly blinded)	Sikafloor®-156 Quartz sand 0.4 - 0.7 mm	0.3 - 0.5 kg/m <sup>2</sup> ~ 0.8 kg/m <sup>2</sup>
Base coat	Sikafloor®-350 Elastic	~ 2.2 kg/m <sup>2</sup>
Broadcast wearing course	Sikafloor®-355 N filled + Quartz sand 0.7 - 1.2 mm	~ 1.86 kg/m <sup>2</sup> (1.55 kg/m <sup>2</sup> binder + 0.31 kg/m <sup>2</sup> filler) 6 - 8 kg/m <sup>2</sup>
Seal coat	<b>Sikafloor®-354*</b>	0.7 - 0.9 kg/m <sup>2</sup>

#### Car park system similar to OS 11b

Coating System	Product	Consumption
Primer (lightly blinded)	Sikafloor®-156 Quartz sand 0.4 - 0.7 mm	0.3 - 0.5 kg/m <sup>2</sup> ~ 0.8 kg/m <sup>2</sup>
Broadcast wearing course	Sikafloor®-350 Elastic filled + Quartz sand 0.7 - 1.2 mm	~ 2.4 kg/m <sup>2</sup> (2.0 kg/m <sup>2</sup> binder + 0.4 kg/m <sup>2</sup> filler) 6 - 8 kg/m <sup>2</sup>
Seal coat	<b>Sikafloor®-354*</b>	0.7 - 0.9 kg/m <sup>2</sup>

#### Car park system OS 13

Coating System	Product	Consumption
Primer (blinded)	Sikafloor®-156 Quartz sand 0.4 - 0.7 mm	0.3 - 0.5 kg/m <sup>2</sup> ~ 0.8 kg/m <sup>2</sup>
Broadcast wearing course	Sikafloor®-355 N + Quartz sand 0.7 - 1.2 mm	~ 1.2 kg/m <sup>2</sup> 6 - 8 kg/m <sup>2</sup>
Seal coat	<b>Sikafloor®-354*</b>	0.7 - 0.9 kg/m <sup>2</sup>

\*Sikafloor®-354 can be diluted with Thinner C up to 5% pbw.

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

### Substrate Quality

The Sikafloor® substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc..  
Pull-off strength must be not less than 1.5 N/mm<sup>2</sup>.  
If in doubt, apply a test area first.

### Substrate Preparation

All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush 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

<b>Mixing</b>	Part A : part B = 85 : 15 (by weight)
<b>Mixing Time</b>	Prior to mixing stir part A mechanically. When all of part B has been added to part A mix continuously for 3 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 reduce air entrainment.
<b>Mixing Tools</b>	<b>Sikafloor®-354</b> must be mechanically mixed using an electric stirrer (300 - 400 rpm) or other suitable equipment.
<b>Application Method / Tools</b>	Prior to application, confirm substrate moisture content, r.h. and dew point. <i>Seal coat:</i> Uniformly spread <b>Sikafloor®-354</b> by using a short pile nylon roller or a squeegee (back-rolling necessary). A seamless finish can be achieved if a 'wet' edge is maintained during application.
<b>Cleaning of Tools</b>	Clean all tools with Thinner C immediately after use. Hardened / cured material can only be removed mechanically.

### Potlife

Temperature	Time
+10°C	~ 120 minutes
+20°C	~ 60 minutes
+30°C	~ 10 minutes

### Waiting Time / Overcoatability

Before applying **Sikafloor®-354** on Sikafloor®-350 Elastic broadcast allow:

Substrate temperature	Minimum	Maximum
+10°C	24 hours	*
+20°C	15 hours	*
+30°C	8 hours	*

Before applying **Sikafloor®-354** on Sikafloor®-355 N broadcast allow:

Substrate temperature	Minimum	Maximum
+10°C	24 hours	*
+20°C	10 hours	*
+30°C	5 hours	*

Before applying **Sikafloor®-354** on Sikafloor®-325 or -261 broadcast allow:

Substrate temperature	Minimum	Maximum
+10°C	36 hours	*
+20°C	24 hours	*
+30°C	16 hours	*

\* No maximum waiting time if fully broadcast surface is free from all contaminations.

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

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**Notes on Application /  
Limitations**

Freshly applied **Sikafloor®-354** must be protected from damp, condensation and water for at least 24 hours (+20°C).

Unevenness of the substrates and inclusions of dirt cannot be covered by thin sealer coats. Therefore the substrate and adjacent areas must be cleaned thoroughly prior to application.

**Tools**

Recommended Supplier of Tools:

PPW-Polyplan-Werkzeuge GmbH, Phone: +49 40/5597260, [www.polyplan.com](http://www.polyplan.com)

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**Curing Details****Applied Product \  
ready for use**

Temperature	Foot traffic	Light traffic	Full cure
+10°C	~ 48 hours	~ 5 days	~ 10 days
+20°C	~ 24 hours	~ 3 days	~ 7 days
+30°C	~ 18 hours	~ 2 days	~ 5 days

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

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**Cleaning /  
Maintenance****Methods**

To maintain the appearance of the floor after application, **Sikafloor®-354** must have all spillages removed immediately and be regularly cleaned using rotary brush, mechanical scrubbers, scrubber dryer, high pressure washer, 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 Restriction**

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.

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**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.

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

According to the EU-Directive 2004/42, the maximum allowed content of VOC Product category IIA / j Type **sb**) is 550 / 500 g/l (Limits 2007 / 2010), for the ready to use product.

The maximum content of **Sikafloor®-354** is < 500 g/l VOC for the ready to use product.

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## 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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