BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-540

FAST SETTING UV-STABLE FLOORING TOP COAT

PRODUCT DESCRIPTION

Sikafloor®-540 is a 2-part polyamide / isocyanate coloured UV-stable flooring resin. It provides a colour stable, hard wearing top coat over aggregate broadcast epoxy, polyurethane, polyurea-hybrid and polyurea resin floors. Thickness 0.2–0.5 mm. Internal and external use.

USES

Sikafloor®-540 may only be used by experienced professionals.

- Fast curing top coat where high wear resistance, good colour retention when exposed to UV-radiation and good chemial resistance is required. Particularly suited for car park applications.

CHARACTERISTICS / ADVANTAGES

- Low odour
- Resistant to UV exposure
- High abrasion resistance
- Easy to apply
- Fast curing, short down times

PRODUCT INFORMATION

Chemical Base	Part A	Polyamide
	Part B	Isocyanate
Packaging	Part A	3,80 kg containers
	Part B	1,20 kg containers
	For large scale projects a 12 kg packaging, A+B, will be available on demand. Please consider the short pot-life when placing your order.	
Appearance / Colour	Standard colour: RAL 7037. Other colours on request. Applied colours selected from colour charts will be approximate. It is recommended that applied colour samples must be compared against colour chart colours under the same lighting conditions before final selection.	
Shelf Life	Part A and Part B: 12 months from date of production	
Storage Conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +30 °C. Always refer to packaging.	
Density	~1.41 kg/l	

Solid content by weight	~100 %

TECHNICAL INFORMATION

Shore D Hardness	D60–D70 at +20 °C
Abrasion Resistance	~60 mg (CS10/1000/1000)
Chemical Resistance	Resistant to many chemicals. Contact Sika Technical Services for additional information.
Thermal Resistance	~+70 °C dry max.
Gloss Level	20° = 60–64 60° = 80–84 85° = 96–100

APPLICATION INFORMATION

Mixing Ratio	A : B = 76 : 24
Consumption	~0.70 kg/m² on broadcast surfaces. This figure is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc.
Layer Thickness	~0.20–0.50 mm
Product Temperature	+8 °C min. / +35 °C max.
Ambient Air Temperature	+5 °C min. / +45 °C max.
Relative Air Humidity	50 % min. / 80 % max.
Dew Point	Beware of condenstation. The substrate and uncured applied floor material must be at least +3 °C above dew point.
Substrate Temperature	+5 °C min. / +40 °C max.
Pot Life	~15 minutes at +20 °C

Curing Time

Temperature	Wet Film thickness	Relative humidity	Time
+20 °C	~0.2 mm	~60 %	< 2 hours
+20 °C	~0.5 mm	~60 %	~2.5 hours
+20 °C	~0.5 mm, fully broadcasted	~60 %	~1.5 hours

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

The applied broadcast resin floor (epoxy, polyurethane, polyurea-hybrid and polyurea resin) surface must be tack free, clean and dry.
If dust exists on the surface, it must be completely removed before application of the product, preferably by vacuum extraction equipment.

MIXING

Prior to mixing all parts, mix part A (resin) using a low speed single paddle electric stirrer to mix liquid and all the coloured pigment until a uniform colour has been achieved. Add part B (hardener) to part A and mix part A + B continuously for 3 minutes until a uniformly coloured mix has been achieved. To ensure thorough mixing pour materials into a clean container and mix again for at least 1 minute to achieve a smooth consistent mix. Excessive mixing must be avoided to minimise air entrainment. During the final mixing stage, scrape down the sides and bottom of the mixing container with a straight edge trowel or spatula at least once to ensure complete mixing. Mix full units only. Mixing time for A+B = ~4 minutes

APPLICATION

After waiting the appropriate overcoating time, apply evenly using a nylon roller or brush at the required consumption rate in two directions at right angles to each other. A seamless finish can be achieved if a ‘wet’ edge is maintained during application.

CLEANING OF TOOLS

Clean all tools and application equipment with Sika® Thinner C immediately after use. Hardened material can only be removed mechanically

LIMITATIONS

- After application, Sikafloor®-540 must be protected from damp, condensation and direct water contact (rain) for 3 hours.
- For exact colour matching, ensure the Sikafloor®-540 in each area is applied from the same control batch numbers.
- Seal / Top coat consumption will vary depending on sand granulometry.
- With light colour shades it may be necessary to apply several coats of Sikafloor®-540 to achieve full opacity (hiding power) over the existing broadcast floor.
- Discard any material over the pot life recommendations.
- Do not apply Sikafloor®-540 on damp / wet surfaces.
- Do not apply over existing methacrylate floors as 'yellowing' may occur.

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.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

DIRECTIVE 2004/42/CE - LIMITATION OF EMISSIONS OF VOC

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-540 is 500g/l.

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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