

PRODUCT DATA SHEET

Sikafloor®-354

2-PART TOUGH-ELASTIC COLOURED EPOXY SEAL COAT



DESCRIPTION

Sikafloor®-354 is a two part, tough elastic, coloured, epoxy seal coat.
"Total solid epoxy composition according to the test method Deutsche Bauchemie e.V. (German Association for construction chemicals)"

USES

Sikafloor®-354 may only be used by experienced professionals.

- Sikafloor®-354 is used as 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, e.t.c.

CHARACTERISTICS / ADVANTAGES

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

APPROVALS / STANDARDS

Tough-elastic coloured epoxy and seal coat according to EN 1504-2: 2004 and EN 13813:2002, DoP 02 08 01 02 017 0 000001 1008, certified by Factory Production Control Body No. 0921 and provided with the CE-mark.

PRODUCT INFORMATION

Chemical base	Epoxy	
Packaging	Part A	21.25 kg containers
	Part B	3.75 kg containers
	Part A+B	25 kg ready to mix units
Appearance / Colour	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.		
Shelf life	24 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.	

Density	Part A	~ 1.73 kg/l	(DIN EN ISO 2811-1)
	Part B	~ 1.05 kg/l	
	Mixed resin	~ 1.60 kg/l	

All Density values at +23°C.

Solid content by weight	~100%
Solid content by volume	~100%

TECHNICAL INFORMATION

Shore D Hardness	~60 (14 days / +23°C)	(DIN 53 505)								
Abrasion Resistance	75 mg (CS 10/1000/1000) (8 days / +23°C)	(DIN 53 109)								
Chemical Resistance	Resistant to many chemicals. Contact Sika technical service for specific information.									
Thermal Resistance	<table border="1"> <thead> <tr> <th>Exposure*</th> <th>Dry heat</th> </tr> </thead> <tbody> <tr> <td>Permanent</td> <td>+50°C</td> </tr> <tr> <td>Short-term max. 7 d</td> <td>+80°C</td> </tr> <tr> <td>Short-term max. 12 h</td> <td>+100°C</td> </tr> </tbody> </table>	Exposure*	Dry heat	Permanent	+50°C	Short-term max. 7 d	+80°C	Short-term max. 12 h	+100°C	
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Short-term moist/wet heat* up to +80°C where exposure is only occasional (steam cleaning etc.).										
*No simultaneous chemical and mechanical exposure										

SYSTEMS

Systems	Please refer to the system data sheets:	
	Sikafloor® MultiDur EB-23	Broadcast unicolour epoxy floor covering with high abrasion resistance

APPLICATION INFORMATION

Mixing ratio	Part A : part B = 85 : 15 (by weight)									
Consumption	~0,7-0,9 kg/m ² These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc. For detailed info, please refer to the System data sheet Sikafloor® MultiDur EB-23.									
Ambient Air 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. Note: Low temperatures and high humidity conditions increase the probability of blooming.									
Substrate Temperature	+10°C min. / +30°C max.									
Substrate Moisture Content	< 4% pbw moisture content. Test method: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).									
Pot Life	<table border="1"> <thead> <tr> <th>Temperature</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>+10°C</td> <td>~ 60 minutes</td> </tr> <tr> <td>+20°C</td> <td>~ 30 minutes</td> </tr> <tr> <td>+30°C</td> <td>~ 10 minutes</td> </tr> </tbody> </table>	Temperature	Time	+10°C	~ 60 minutes	+20°C	~ 30 minutes	+30°C	~ 10 minutes	
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Curing time	Please refer to the system data sheets Sikafloor® Multidur EB-23.									

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- The concrete substrate must be sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum pull off strength of 1.5 N/mm².
- The substrate must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings and surface treatments, etc.
- 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.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product, preferably by brush or vacuum.

MIXING

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 minimise air entrainment.

Mixing Tools:

Sikafloor®-354 must be thoroughly mixed using a low speed electric stirrer (300 - 400 rpm) or other suitable equipment.

APPLICATION

Prior to application, confirm substrate moisture content, relative air humidity and dew point.

Seal coat:

Sealer coats can be applied by squeegee and then back-rolled (crosswise) with a short-piled roller. A seamless finish can be achieved if a 'wet' edge is maintained during application.

CLEANING OF TOOLS

Removal of fresh remnants from tools and application equipment can be carried out using Thinner C immediately after use. Hardened / cured material can only be mechanically removed.

FURTHER DOCUMENTS

Substrate quality & Preparation

Please refer to Sika Method Statement: "EVALUATION AND PREPARATION OF SURFACES FOR FLOORING SYSTEMS".

Application instructions

Please refer to Sika Method Statement: "MIXING & APPLICATION OF FLOORING SYSTEMS".

Maintenance

Please refer to "Sikafloor®- CLEANING REGIME".

LIMITATIONS

- Apply Sikafloor®-354 only as a seal coat on fully broadcast systems.
- Freshly applied Sikafloor®-354 should be protected from damp, condensation and water for at least 24 hours.
- For areas with limited exposure and normally absorbent concrete substrates priming with Sikafloor®-156/-161/-160 is not necessary for roller or textured coating systems.
- For roller / textured coatings: Uneven substrates as well as inclusions of dirt cannot and should not be covered by thin sealer coats. Therefore both substrate and adjacent areas must always be prepared and cleaned thoroughly prior to application.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- For exact colour matching, ensure the Sikafloor®-354 in each area is applied from the same control batch numbers.
- Under certain conditions, underfloor heating or high ambient temperatures combined with high point loading, may lead to imprints in the resin.
- 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

BASIS OF PRODUCT DATA

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. 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/CE, the maximum allowed content of VOC (product category IIA / j type sb) is 500 g/l (Limits 2010) for the ready to use product.

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

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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