

PRODUCT DATA SHEET

Sikafloor[®]-2540 W BH

2-PART WATER BASED EPOXY COATING

DESCRIPTION

Sikafloor[®]-2540 W BH is a 2-part, low emission, water based, coloured, epoxy resin based floor coating, that can provide a low maintenance, dustproof, easy to clean and smooth finish. For light to medium wearing conditions.
Suitable for use in hot and tropical climatic conditions.

USES

Sikafloor[®]-2540 W BH may only be used by experienced professionals.

- Coloured epoxy coating on concrete, cementitious screeds, top coat for broadcast systems and epoxy mortars.
- Light to medium mechanical and chemical exposure.
- For hygienic areas such as food production areas, hospitals, pharmacies, etc.

CHARACTERISTICS / ADVANTAGES

- Matt finish
- Low VOC
- Good chemical resistance
- Water dilutable
- Low odour
- Easy application
- Low maintenance
- Clean Room suitable
- Hygienic coating

PRODUCT INFORMATION

Composition	Epoxy, waterborne	
Packaging	Part A	20 kg
	Part B	4 kg
	Part A+B (set)	24 kg
Shelf life	12 months from the 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.	
Appearance and colour	Resin, part A	Coloured liquid
	Hardener, part B	Transparent liquid

Available in: white, beige, off-white, grey, dark grey, red, blue and green.
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.

Other colours are subjected to minimum order.

Density	Part A	~1.48 kg/l
	Part B	~1.16 kg/l
	Mixed resin	~1.42 kg/l
All Density values at +25 °C.		
Solid content by mass	~62 %	
Solid content by volume	~46 %	

TECHNICAL INFORMATION

Shore D Hardness	~70 (28 days curing at +23 °C)	(ASTM D2240)
Abrasion resistance	~100 mg (CS10/1000/1000) (28 d / +23 °C)	(ASTM D4060)
Tensile strength	≥ 1.50 N/mm ² (28 days curing at +23 °C)	(ASTM D2370)
Tensile adhesion strength	≥ 1.5 N/mm ² (or failure in concrete)	(ASTM D4541)
Chemical resistance	Resistant to many chemicals. Contact Sika Technical Services for additional information.	

APPLICATION INFORMATION

Mixing ratio	(A : B) = (5 : 1) by weight		
Consumption	Smooth system (~0.2-0.3 mm):		
	Coating System	Product	Consumption
	Primer	1 x Sikafloor®-2540 W BH + 5-10% pbw water	0.20-0.30 kg/m ²
	Top Coat	1-2 x Sikafloor®-2540 W BH	0.25-0.35 kg/m ² per coat
These figures are theoretical and do not allow for any additional material due to surface porosity, surface profile, variations in level or wastage etc.			
Ambient air temperature	+10°C min. / +35°C max.		
Relative air humidity	< 75 %		
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. Low temperatures and high humidity conditions increase the probability of blooming.		
Substrate temperature	+10°C min. / +35°C max.		
Substrate moisture content	≤ 6% pbw moisture content. Test method: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).		
Pot Life	Temperature	Time	
	+30°C	~60 min.	
Caution! End of pot life is not visually noticeable!			
Curing time	Temperature	Foot Traffic	Fully cured
	+25°C	min. 8 hours	14 days
Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.			

Waiting time to overcoating

Before overcoating Sikafloor®-2540 W BH allow:

<u>Substrate Temperature</u>	<u>Minimum</u>	<u>Maximum</u>
+25°C	6 hours	2 days
+30°C	4 hours	2 days

Note: Apply second coat only after the first coat is tack-free

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER INFORMATION

- Sika® Method Statement: Evaluation and Preparation of Surfaces for Flooring Systems
- Sika® Method Statement: Mixing & Application of Flooring Systems

IMPORTANT CONSIDERATIONS

- After application, Sikafloor®-2540 W BH must be protected from damp, condensation and water for at least 24 hours.
- Always ensure adequate fresh air ventilation when using Sikafloor®-2540 W BH in confined spaces to avoid curing problems.
- The “matt” of the finish can vary with temperature, humidity and the absorbency of the substrate.
- With light colour shades (e.g. beige, off-white, etc.) it may be necessary to apply several coats of Sikafloor®-2540 W to achieve full opacity (hiding power).
- Maximum waiting time between 2 coats must not exceed 2 days.
- End of pot life cannot be visually or physically detected. Therefore, the specified pot life must be timed and observed strictly.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- For exact colour matching, ensure the Sikafloor®-2540 W BH 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 temporary 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.
- Apply on a falling temperature. If applied during rising temperatures “pin holing” may occur from rising air.
- Do not apply Sikafloor®-2540 W BH on substrates with rising moisture.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY / PRE-TREATMENT

- Cementitious substrates (concrete / screed) must be structurally sound and of sufficient compressive strength (minimum 25 N/mm²) with a minimum tensile adhesion strength of 1,5 N/mm².
- Substrates must be clean, dry and free of all contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.
- Cementitious substrates must be prepared mechanically using suitable abrasive blast cleaning or planing / scarifying equipment to remove cement laitance and achieve an open textured gripping surface profile suitable for the product thickness.
- High spots can be removed by grinding.
- Weak cementitious substrates must be removed and surface defects such as blow holes and voids must be fully exposed.
- Repairs to the substrate, filling of cracks, blowholes/voids and surface levelling must be carried out using appropriate products from the Sikafloor®, Sikadur® and Sikagard® range of materials.
- Products must be cured before applying Sikafloor®-2540 W BH.
- All dust, loose and friable material must be completely removed from all surfaces before application of the product and associated system products, preferably by vacuum extraction equipment.

MIXING

Prior to mixing stir part A mechanically using a low speed single paddle electric stirrer (300–400 rpm) to mix liquid and all the coloured pigment until a uniform colour has been achieved.

Add part B (hardener) to part A and mix continuously for 2,0 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 1,0 minute to achieve a smooth consistent mix. Total mixing time 3,0 minutes. Over 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 flat or straight edge trowel at least once to ensure complete mixing.

Mix full units only.

APPLICATION

Primer

Pour mixed water diluted Sikafloor®-2540 W BH (5-10 %) onto the prepared substrate and apply by brush, roller or squeegee, then roll in two directions at right angles to each other. Ensure a continuous, pore free coat covers the substrate. If necessary, apply two priming coats.

Confirm waiting /overcoating time has been achieved before applying subsequent products.

Seal / top coat

After waiting the appropriate overcoating time, pour the mixed Sikafloor®-2540 W BH onto prepared substrate and apply evenly using a nylon roller 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.

Sikafloor®-2540 W BH can be applied either with a brush, roller or airless spray.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened material can only be removed mechanically.

MAINTENANCE

CLEANING

To maintain the appearance of the floor after application, Sikafloor®-2540 W BH 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.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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ISO 9001, 14001, 45001 –
Lloyd's Register
Sika S.A. LLC
Sika International Chemicals LLC
SIO 9001, 14001, 45001 – SGS
Sika Gulf S.S.C. O
SIO 9001, 14001 – SGS
Sika Saudi Arabia Limited

All products are supplied under
a management system certified
to conform to the requirements
of the quality, environmental
and occupational health &
safety standards ISO 9001, ISO
14001 and ISO 45001.



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