

PRODUCT DATA SHEET

Sikafloor®-2530 W

Water Based Smooth Epoxy Floor Coating

DESCRIPTION

Sikafloor®-2530 W is a 2-part, water-based, epoxy resin based, coloured, smooth floor coating.

USES

Sikafloor®-2530 W may only be used by experienced professionals.

Industrial resin floor coating on cementitious substrates for:

- Normal up to medium heavy wear
- Sikafloor® broadcast systems and epoxy mortars
- Production areas
- Warehouses
- Workshops
- Garages
- Multi-storey and underground car park intermediate decks
- Interior use only

CHARACTERISTICS / ADVANTAGES

- Good abrasion resistance
- Good chemical and mechanical resistance
- Water dilutable
- Easy application
- Gloss finish
- Low maintenance

ENVIRONMENTAL INFORMATION

- Conformity with LEED v4 MRc 2 (Option 1): Building Product Disclosure and Optimization – Environmental Product Declarations
- Conformity with LEED v4 MRc 4 (Option 2): Building Product Disclosure and Optimization - Material Ingredients
- Conformity with LEED v2009 IEQc 4.2: Low-Emitting Materials - Paints and Coatings

APPROVALS / STANDARDS

IMPORTANT: Product does not meet legal requirements of EU Construction Products Regulation

Pursuant to Article 4 (1) of Regulation (EU) No 305/2011 (Construction Products Regulation) the manufacturer must draw up a Declaration of Performance when placing a product on the market which is covered by a harmonised standard (hEN) or conforms to a European Technical Assessment (ETA) which has been issued for it. This product is covered by a hEN or conforms to an ETA and no Declaration of Performance is existing for it.

PRODUCT INFORMATION

Chemical Base	Water-based epoxy	
Packaging	Part A	4,2 kg and 12,6 kg containers
	Part B	1,8 kg and 5,4 kg containers
	Part A+B	6,0 kg and 18 kg ready to mix units
Refer to current price list for packaging variations.		
Appearance / Colour	Final floor appearance: Smooth, gloss finish	
	Part A - resin	coloured, liquid
	Part B - hardener	transparent, liquid
Available in various colour shades. Applied colours selected from colour charts will be approximate. For colour matching: Apply colour sample and confirm selected colour under real lighting conditions. When product is exposed to direct sunlight, there may be some discolouration and colour variation, this has no influence on the function and performance of the floor finish.		
Shelf Life	12 months from date of production	
Storage Conditions	The product must be stored in original, unopened and undamaged packaging in dry conditions at temperatures between +5 °C and +30 °C.	
Density	Part A	~1,28 kg/l (DIN EN ISO 2811-1)
	Part B	~1,09 kg/l
	Resin mixed	~1,22 kg/l
Values at +23 °C.		
Solid content by weight	~55 %	
Solid content by volume	~43 %	

TECHNICAL INFORMATION

Abrasion Resistance	62 mg (CS 10/1000/1000) Value at 14 days / +23 °C	(EN ISO 5470-1) (Taber Abrader Test)
Chemical Resistance	Resistant to many chemicals. Contact Sika Technical Services for additional information	
Thermal Resistance	Exposure*	Dry heat
	Permanent	+50 °C
	Short-term max. 7 days	+80 °C
	Short-term max. 8 hours	+100 °C
Short-term moist/wet heat* up to +80 °C where exposure is only temporary (steam cleaning etc.). *No simultaneous chemical and mechanical exposure and only in combination with Sikafloor® systems as a broadcast system with approx. 3–4 mm thickness.		

SYSTEM INFORMATION

Systems	Refer to the following System Data Sheets: <ul style="list-style-type: none">▪ Sikafloor® Multidur WS-11▪ Sikafloor® Multidur WT-11
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APPLICATION INFORMATION

Mixing Ratio	Part A : Part B = 70: 30 (by weight)
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Consumption	~0,2–0,3 kg/m ² applied as a roller coating 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 information, refer to the System Data Sheets: Sikafloor® Multidur WS-11 and Sikafloor® Multidur WT-11		
Ambient Air Temperature	+10 °C min. / +30 °C max.		
Relative Air Humidity	80 % 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. Low temperatures and high humidity conditions increase the probability of blooming.		
Substrate Temperature	+10 °C min. / +30 °C max.		
Substrate Moisture Content	≤6 % parts by weight The following test methods can be used: Sika®-Tramex meter, CM-measurement or Oven-dry-method. No rising moisture according to ASTM (Polyethylene-sheet).		
Pot Life	Temperature	Time	
	+10 °C	~150 minutes	
	+20 °C	~120 minutes	
	+30 °C	~60 minutes	
Curing Time	Before overcoating Sikafloor®-2530 W allow:		
	Substrate temperature	Minimum	Maximum
	+10 °C	48 hours	7 days
	+20 °C	20 hours	5 days
	+30 °C	10 hours	3 days

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

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.

FURTHER DOCUMENTS

- Sika Method Statement: Evaluation and Preparation of Surfaces for Flooring Systems
- Sika Method Statement: Mixing & Application of Flooring Systems
- Sika Method Statement: Sikafloor®-Cleaning Regime
- System Data Sheet: Sikafloor® MultiDur WS-11
- System Data Sheet: Sikafloor® MultiDur WT-11

LIMITATIONS

- After application, Sikafloor®-2530 W must be protected from damp, condensation and water for at least 24 hours.
- Always ensure adequate fresh air ventilation when using Sikafloor®-2530 W in confined spaces to avoid curing problems.
- The “gloss” of the finish can vary with temperature, humidity and the absorbency of the substrate.
- With light colour shades (e.g. yellow or orange) it

may be necessary to apply several coats of Sikafloor®-2530 W to achieve full opacity (hiding power).

- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- For consistent colour matching, ensure the Sikafloor®-2530 W 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.
- Do not apply Sikafloor®-2530 W on substrates with rising moisture.

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 wb) is 140 g/l (Limits 2010) for the ready to use product.

The maximum content of Sikafloor®-2530 W is ≤ 140 g/l VOC for the ready to use product.

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 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®-2530 W.

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 all parts, mix Part A (resin) using an electric single paddle mixer (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. 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. Mixing time for A+B = 3,0 minutes.

APPLICATION

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

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

If > 6 % pbw moisture content, Sikafloor® EpoCem® may be applied as a (temporary moisture barrier) T.M.B. system.

Primer

Pour mixed Sikafloor® primer onto the prepared substrate and apply by brush, roller or squeegee then back roller 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. Refer to individual primer Product Data Sheet.

Seal / top coat

After waiting the appropriate overcoating time, pour the mixed Sikafloor®-2530 W 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.

CLEANING OF TOOLS

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®-2530 W 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.

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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.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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