

PRODUCT DATA SHEET

Sikafloor®-2510 W

Water-based epoxy coating with low VOC emissions

DESCRIPTION

Sikafloor®-2510 W is a 2-part, water-based, coloured epoxy resin floor coating with low emissions and low maintenance requirements.

USES

Sikafloor®-2510 W may only be used by experienced professionals.

The Product is used as a:

- Primer or scratch coat
- Smooth roller coat
- Self-smoothing wearing layer
- Seal coat

The Product is used on the following substrates:

- Concrete and cementitious substrates

Please note: The Product may only be used for interior applications.

CHARACTERISTICS / ADVANTAGES

- Low VOC emissions
- Good resistance to abrasion
- Good resistance to specific chemicals
- Good mechanical resistance
- Low odour
- Easy application
- Low maintenance
- Clean up in water

ENVIRONMENTAL INFORMATION

- Environmental Product Declaration (EPD) in accordance with EN 15804. EPD independently verified by Institut für Bauen und Umwelt e.V. (IBU)

APPROVALS / STANDARDS

- CE marking and declaration of performance based on EN 13813:2002 Screed material and floor screeds — Screed material — Properties and requirements — Synthetic resin screed material
- CE marking and declaration of performance based on EN 1504-2:2004 Products and systems for the protection and repair of concrete structures — Surface protection systems for concrete — Coating

PRODUCT INFORMATION

Chemical Base	Water-based epoxy	
Packaging	Container Part A	13.6 kg
	Container Part B	6.4 kg
	Container Part A + Part B	20.0 kg
Shelf Life	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. Refer to the current Safety Data Sheet for information on safe handling and storage.	

Appearance / Colour	Part A	Coloured liquid
	Part B	White liquid
	Cured colour	Available in many colours
	Cured appearance	Semi-gloss finish
Density	Mixed Product	1.34 kg/L (EN ISO 2811-1)
Solid content by weight	70 %	
Solid content by volume	60 %	

TECHNICAL INFORMATION

Service Temperature	IMPORTANT	
	Simultaneous mechanical and chemical strain	
	While the Product is exposed to temperatures up to +60 °C, simultaneous mechanical or chemical strain may cause damage to the Product.	
	1. Do not expose the Product to chemical or mechanical strain at elevated temperatures	
	Maximum	+60 °C
Systems	Sikafloor® MultiDur WS-18 Sikafloor® MultiDur WB-28 Sikafloor® MultiDur WS-28	

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B (by weight)	68 : 32
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Consumption	Function	Product	Consumption
	Primer	Sikafloor®-2510 W + 10 % water	0.15–0.2 kg/m ²
	Scratch coat	Sikafloor®-2510 W + 4 % Sika® Extender T	0.3 kg/m ²
	Smooth roller coat	Sikafloor®-2510 W	0.15-0.2 kg/m ²
	Self-smoothing layer	Sikafloor®-2510 W filled up to 1 : 1 with quartz sand 0.1-0.3 mm	3.8 kg/m ²
	Seal coat	Sikafloor®-2510 W	Two coats at 0.35-0.45 kg/m ²

Note: Consumption data is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.

Product Temperature	Maximum	+30 °C
	Minimum	+10 °C

Ambient Air Temperature	Maximum	+30 °C
	Minimum	+10 °C

Relative Air Humidity	75 % r.h. max
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Dew Point	Beware of condensation. The substrate and uncured applied product must be at least +3 °C above dew point to reduce the risk of condensation or blooming on the surface of the applied product. Low temperatures and high humidity conditions increase the probability of blooming.
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Substrate Temperature	Maximum	+30 °C
	Minimum	+10 °C

Substrate Moisture Content

Substrate	Test method	Moisture content
Cementitious substrates	Sika®-Tramex meter, CM - measurement or Oven-dry-method.	≤ 6 %

No rising moisture (ASTM D4263, polyethylene sheet)
Osmosis caused by rising moisture or incorrect primer application is not covered by the product warranty.

Pot Life

+10 °C	120 minutes
+20 °C	90 minutes
+30 °C	30 minutes

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

Applied Product Ready for Use

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

Note: 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

Refer to the following method statements:

- Sika Method Statement — Evaluation and preparation of surfaces for flooring systems
- Sika Method Statement — Sikafloor® mixing and application

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.

APPLICATION INSTRUCTIONS

EQUIPMENT

SUBSTRATE PREPARATION

- Floor Grinding equipment
- Abrasive blast cleaning equipment

MIXING

- Electric double paddle mixer (>700 W, 300 to 400 rpm)
- Electric single paddle mixer (300 to 400 rpm)
- Scraper
- Clean mixing containers

APPLICATION

- Trowels, including serrated
- Short-pile nylon roller
- Squeegee

SUBSTRATE QUALITY

IMPORTANT

Incorrect treatment of cracks

The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.

TREATMENT OF JOINTS AND CRACKS

Construction joints and existing static surface cracks in substrate require pre-treating before full layer application. Use Sikadur® or Sikafloor® resins.

SUBSTRATE CONDITION

Cementitious substrates must be structurally sound and of sufficient compressive strength (minimum 25 MPa) with a minimum tensile strength of 1.5 MPa. Substrates must be clean, dry and free of contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

SUBSTRATE PREPARATION

MECHANICAL SUBSTRATE PREPARATION

IMPORTANT

Surface defects due to voids in the substrate

Voids and blow holes in the substrate will weaken the surface and damage the covering Product if not repaired during the preparation process.

1. Fully expose blow holes and voids during surface preparation to identify the required repairs.
1. Remove weak cementitious substrates.
2. Prepare cementitious substrates mechanically using grinding, abrasive blast cleaning, or abrasive planing equipment to remove cement laitance.
3. Before applying thin layer resins, remove high spots by grinding.
4. Use industrial vacuuming equipment to remove all dust, loose and friable material from the application surface before applying the Product.
5. Use products from the Sikafloor®, Sikadur® and Sikagard® range of materials to level the surface or fill cracks, blow holes and voids.

Contact Sika® Technical Services for additional information on products for levelling and repairing defects.

MIXING

ROLLER COAT MIXING PROCEDURE

1. Mix Part A (resin) until the coloured pigment is dispersed and a uniform colour is achieved.
2. Add Part B (hardener) to Part A.
3. **IMPORTANT** Do not mix excessively. Mix Part A + B continuously for ~3 minutes until a uniformly coloured mix is achieved.
4. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth and uniform mix.
5. 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.

SELF-SMOOTHING WEARING LAYER MIXING PROCEDURE

1. Mix Part A (resin) until the coloured pigment is dispersed and a uniform colour is achieved.
2. Add Part B (hardener) to Part A.
3. While mixing Parts A + B, gradually add the required filler or aggregates.
4. **IMPORTANT** Do not mix excessively. Mix for a further 2 minutes until a uniform mix is achieved.
5. To ensure thorough mixing, pour materials into another container and mix again to achieve a smooth and uniform mix.
6. 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.

APPLICATION

IMPORTANT

Protect from moisture

After application, protect the Product from damp, condensation and direct water contact for at least 24 hours.

IMPORTANT

Ventilation in confined spaces

Always ensure good ventilation when applying the Product in a confined space.

IMPORTANT

Damaged finish due to heating with fossil fuel heaters

Fossil fuel heaters powered by gas, oil or paraffin produce large quantities of both carbon dioxide and water vapour, which may adversely affect the finish.

1. For temporary heating, use only electrically powered warm air blower systems. Do not use gas, oil, paraffin or other fossil fuel heaters.

IMPORTANT

Indentations in resin due to high temperature combined with high point loading

Under certain conditions, underfloor heating or high ambient temperatures combined with high point load-

ing may lead to indentations in the resin.

IMPORTANT

Ensuring consistent colour matching

For consistent colour matching, make sure the Product in each area is applied from the same control batch numbers.

PRIMER OR ROLLER COAT APPLICATION

1. Pour the mixed Product onto the substrate. Note The consumption is specified in Application Information.
2. Apply the Product evenly over the surface with a short pile roller or a squeegee.
3. Back-roll the surface in two directions at right angles with a fleece roller. Note Maintain a "wet edge" during application to achieve a seamless finish.

SCRATCH COAT APPLICATION

1. Pour the mixed Product onto the substrate. Note The consumption is specified in Application Information.
2. Apply the Product evenly over the surface with a trowel or a squeegee.

SELF SMOOTHING LAYER APPLICATION

1. Pour the mixed Product onto the substrate. Note The consumption is specified in Application Information.
2. Apply the Product evenly over the surface with a serrated trowel.
3. To achieve a smooth finish, smooth the surface with the flat side of a trowel.
4. Back roll the surface in two directions at right angles with a steel spike roller.

SEAL COAT FOR BROADCAST SURFACES

1. Pour the mixed Product onto the substrate. Note The consumption is specified in Application Information.
2. Spread the Product evenly over the surface with a squeegee.
3. Back-roll the surface in two directions at right angles with a fleece roller. Note Maintain a "wet edge" during application to achieve a seamless finish.

CLEANING OF TOOLS

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

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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Product Data Sheet

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