

# PRODUCT DATA SHEET

## Sikafloor®-2510 W

Water-based epoxy coating with low VOC emissions

### PRODUCT DESCRIPTION

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

### USES

Sikafloor®-2510 W installation works to be carried out only by Sika Approved Contractors. Please observe information given by Product Data Sheets.

The Product is used as a:

- Primer or scratch coat.
- Smooth or textured 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 by experienced professionals.
- The Product may only be used for interior applications.

### PRODUCT INFORMATION

<b>Chemical Base</b>	Water-based epoxy
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<b>Packaging</b>	Part A	13.6 kg
	Part B	6.4 kg
	Part A + Part B	20 kg

Refer to the current price list for available packaging variations.

<b>Shelf Life</b>	12 months from date of production
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<b>Storage Conditions</b>	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.
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### CHARACTERISTICS / ADVANTAGES

- Low VOC emissions.
- Good resistance to abrasion.
- Good resistance to specific chemicals.
- Good mechanical resistance.
- Low odour.
- Easy application.
- Low maintenance.

### 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.

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

## TECHNICAL INFORMATION

<b>Service Temperature</b>	<p><b>IMPORTANT</b>  <b>Simultaneous mechanical and chemical strain</b>  While the Product is exposed to temperatures up to +60 °C, simultaneous mechanical or chemical strain may cause damage to the Product.  Do not expose the Product to chemical or mechanical strain at elevated temperatures:  Maximum +60 °C</p>	
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## APPLICATION INFORMATION

<b>Mixing Ratio</b>	Part A : Part B (by weight)		68 : 32
<b>Consumption</b>	<b>Function</b>	<b>Product</b>	<b>Consumption</b>
	Primer	Sikafloor®-2510 W + 10 % water	0.15 to 0.2 kg/m <sup>2</sup>
	Scratch Coat	Sikafloor®-2510 W + 4 % Sika® Extender T	0.3 kg/m <sup>2</sup>
	Smooth Roller Coat	Sikafloor®-2510 W	0.15 to 0.2 kg/m <sup>2</sup>
	Textured Roller Coat	Sikafloor®-2510 W + 2 % Sika® Extender T + 3 % quartz sand 0.3 to 0.8 mm	1 to 2 × 0.2 to 0.3 kg/m <sup>2</sup> per layer
	Self-smoothing Layer	Sikafloor®-2510 W filled up to 1 : 1 with quartz sand 0.1 to 0.3 mm	3.8 kg/m <sup>2</sup>
	Seal Coat	Sikafloor®-2510 W	0.7 to 0.9 kg/m <sup>2</sup> applied in 2 layers

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.

<b>Product Temperature</b>	Maximum	+30 °C
	Minimum	+10 °C
<b>Ambient Air Temperature</b>	Maximum	+30 °C
	Minimum	+10 °C
<b>Relative Air Humidity</b>	75 % r.h. maximum	
<b>Dew Point</b>	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.	
<b>Substrate Temperature</b>	Maximum	+30 °C
	Minimum	+10 °C

## Substrate Moisture Content

Substrate	Test Method	Moisture Content
Cementitious substrates	Calcium carbide method (CM-method)	≤6 %
Anhydrite substrates	Calcium carbide method (CM-method)	≤0.3 %

No rising moisture (ASTM D4263, polyethylene sheet).

## 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.

## VALUE BASE

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 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

Local safety regulations must be observed and it advisable to wear PPI when working with this product with particular attention paid to cutting and handling.

Transportation Class: The product is not classified as hazardous good for transport. Disposal: The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.

## APPLICATION INSTRUCTIONS

### EQUIPMENT

#### SUBSTRATE PREPARATION

- Abrasive blast cleaning equipment
- Planing machine
- Scarifying machine

#### 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 N/mm<sup>2</sup>) with a minimum tensile strength of 1.5 N/mm<sup>2</sup>. 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 abrasive blast cleaning, abrasive planing or scarifying 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.

### SUBSTRATE PREPARATION OF NON-CEMENTITIOUS SUBSTRATES

For information on substrate preparation of non-cementitious substrates, contact Sika® Technical Services.

## 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.

### TEXTURED COATING 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. While mixing gradually add between 2 % by weight of flooring resin of Sika® Extender T and 3 % by weight of resin quartz sand 0.3 to 0.8 mm.
5. To ensure thorough mixing, pour materials into an-

other 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.

### 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.

- 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 loading, 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.

#### TEXTURED COATING APPLICATION

1. Pour the mixed Product onto the substrate. Note: The consumption is specified in Application Information.
2. Apply the Product in two directions at right angles with a textured roller. Note: Maintain a 'wet edge' during application to achieve a seamless finish.

#### 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 / notched 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

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 the 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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#### Product Data Sheet

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