BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-2510 W

Water-based epoxy coating with low-VOC emissions

PRODUCT 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 installation works to be carried out only by Sika Approved Contractors. Please observe information given by Product Data Sheets.

Sikafloor®-2510 W is used as a:
- Primer or scratch coat
- Smooth or textured roller coat
- Self-smoothing wearing layer
- Seal coat

Sikafloor®-2510 W 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

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 kg
	Refer to the current price list for available packaging variations.	

Colour	Part A	Coloured
	Part B	White
	Cured colour	Available in many colours
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 the packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.	
Density	Mixed Product	1.34 kg/L (EN ISO 2811-1)
Solid content by mass	70 %	
Solid content by volume	60 %	
Colour	Part A	Liquid
	Part B	Liquid
	Cured appearance	Semi-gloss finish

TECHNICAL INFORMATION

Permeability to Water Vapour	Class II	(EN ISO 7783)
Service Temperature	Maximum	+60 °C

IMPORTANT
Product damage due to mechanical and chemical strain at elevated temperatures
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.

APPLICATION INFORMATION

Mixing Ratio	Part A : Part B (by weight)	68 : 32

Consumption

Function	Product	Consumption
Primer	Sikafloor®-2510 W + 10 % water	0.15–0.2 kg/m²
Scratch coat	Sikafloor®-2510 W+ 4 % Sika® Extender T	0.3 kg/m²
Smooth roller coat	Sikafloor®-2510 W	0.15–0.2 kg/m²
Textured roller coat	Sikafloor®-2510 W + 2 % Sika® Extender T + 3 % quartz sand 0.3-0.8 mm	1–2 × 0.2–0.3 kg/m² per layer
Self-smoothing layer	Sikafloor®-2510 W filled up to 1:1 with quartz sand 0.1-0.3 mm	3.8 kg/m²
Seal coat	Sikafloor®-2510 W	0.7–0.9 kg/m² 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 the 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	Maximum	75 % r.h.
Dew Point	Beware of condensation. The substrate and uncured applied product must be at least +3 °C above the 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.	
Substrate Temperature	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 rpm 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

Reduced service life due to incorrect treatment of cracks

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

1. For static cracks, ensure the width is suitable for overcoating with Sikafloor®-2510 W.
2. For dynamic cracks, ensure the movement is within the movement capacity of Sikafloor®-2510 W.

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/mm²) with a minimum tensile strength of 1.5 N/mm².

Substrates must be clean, dry and free of contaminants such as dirt, oil, grease, coatings, laitance, surface treatments and loose friable material.

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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. Before applying the Product, remove all dust, loose and friable material from the application surface with an industrial vacuuming equipment.
5. Level the surface or fill cracks, blow holes and voids with products from the Sikafloor®, Sikadur® and Sikagard® range of materials.

For additional information on products for leveling and repairing defects, contact Sika® Technical Services.

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 0.3–0.8 mm.
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.

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 loading may lead to indentations in the resin.
IMPORTANT
Inconsistent colouring due to colours from different control batch numbers
For consistent colour matching, make sure the Product is applied in each area from the same control batch numbers.
PRIMER OR ROLLER COAT APPLICATION
1. Pour the mixed Product onto the substrate. Note For consumption, refer to 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 For consumption, refer to 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 For consumption, refer to 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 For consumption, refer to 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 For consumption, refer to 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.

SIKA IRELAND LIMITED
Ballymun Industrial Estate
Ballymun
Dublin 11, Ireland
Tel: +353 1 862 0709
Web: www.sika.ie
Twitter: @SikaIreland