

## PRODUCT DATA SHEET

# Sikafloor®-2640

High-build, fast-curing epoxy floor coating and seal coat

### PRODUCT DESCRIPTION

Sikafloor®-2640 is a fast-curing, coloured, epoxy floor coating and seal coat. It provides a hard-wearing, low-maintenance, slip-resistant gloss finish when broadcast with different aggregate grades.

### USES

Sikafloor®-2640 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:

- Coloured, slightly textured roller coat for concrete and cement screeds with normal to medium wear
- Seal coat or top coat for slip-resistant broadcast systems

Please note:

- The Product may only be used for interior applications.
- The Product may only be used by experienced professionals.

### CHARACTERISTICS / ADVANTAGES

- Very good blush resistance
- Fast curing
- Good yellowing resistance
- Good resistance to specific chemicals
- Good mechanical resistance
- Low maintenance
- Low odour
- Low VOC content
- Low VOC emissions
- Seamless

### ENVIRONMENTAL INFORMATION

- Contributes towards satisfying Materials and Resources (MR) Credit: Building Product Disclosure and Optimization — Material Ingredients under LEED® v4
- Contributes towards satisfying Indoor Environmental Quality (EQ) Credit: Low-Emitting Materials under LEED® v4
- Contributes towards satisfying Materials and Resources (MR) Credit: Building product disclosure and optimization — Environmental Product Declarations under LEED® v4
- VOC emissions A+, Sikafloor®-2640, eurofins, Attestation
- VOC emission classification GEV Emission EC1<sup>plus</sup>

### APPROVALS / STANDARDS

- 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
- 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

## PRODUCT INFORMATION

Chemical Base	Solvent-free epoxy		
Packaging	Container Part A	26.7 kg containers	
	Container Part B	3.3 kg containers	
	Container Part A + Part B	30 kg ready to mix units	
	Refer to the current price list for available packaging variations.		
Shelf Life	24 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	transparent liquid	
	Cured appearance	Gloss finish	
	Almost unlimited choice of colours. <b>Exposure to direct sunlight</b> Note: When the 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 coating.		
Density	Part A	1.58 kg/l	(EN ISO 2811-1)
	Part B	0.98 kg/l	
	Mixed Product	1.48 kg/l	
Solid content by mass	~ 100 %		
Solid content by volume	~ 100 %		

## TECHNICAL INFORMATION

Shore D Hardness	Cured 7 days at +23 °C	~ 78	(EN ISO 868)
Abrasion Resistance	Cured 7 days at +23 °C	~ 935 mg (H22 / 1000 g / 1000 cycles)	(EN ISO 5470-1)
Tensile adhesion strength	> 1.5 N/mm <sup>2</sup> (failure in concrete)		(EN 1542)
Service Temperature	IMPORTANT <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. 1. Do not expose the Product to chemical or mechanical strain at elevated temperatures Maximum +60 °C		

## APPLICATION INFORMATION

Mixing Ratio	Part A : Part B (by weight)	89 : 11
Consumption	<b>Function</b>	<b>Consumption</b>
	Roller coat for smooth systems	0.3–0.4 kg/m <sup>2</sup>
	Seal coat or top coat for broadcast systems	0.6–0.8 kg/m <sup>2</sup>

<b>Product Temperature</b>	Maximum	+30 °C		
	Minimum	+5 °C		
<b>Ambient Air Temperature</b>	Maximum	+30 °C		
	Minimum	+5 °C		
<b>Relative Air Humidity</b>	Maximum	80 % r.h.		
<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	+5 °C		
<b>Substrate Moisture Content</b>	<b>Substrate</b>	<b>Test method</b>	<b>Moisture content</b>	
	Cementitious substrates	Calcium carbide method (CM-method)	≤ 4 %	
No rising moisture (ASTM D4263, polyethylene sheet)				
<b>Temporary moisture barrier</b>				
Note: If the substrate moisture content measured with the CM-method is > 4% by weight, apply a temporary moisture barrier consisting of Sikafloor® EpoCem®.				
1. Contact Sika technical services for more information.				
<b>Pot Life</b>	+10 °C	~ 30 minutes		
	+20 °C	~ 20 minutes		
	+30 °C	~ 15 minutes		
	+5 °C	~ 30 minutes		
	Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.			
<b>Waiting Time / Overcoating</b>	Before applying Sikafloor®-2640 on Sikafloor®-2640 allow:			
	<b>Temperature</b>	<b>Minimum</b>	<b>Maximum</b>	
	+5 °C	~18 hours	~3 days	
	+10 °C	~15 hours	~3 days	
	+20 °C	~6 hours	~48 hours	
	+30 °C	~3 hours	~24 hours	
	Note: Times are approximate and will be affected by changing ambient conditions, particularly temperature and relative humidity.			
<b>Applied Product Ready for Use</b>	<b>Temperature</b>	<b>Foot traffic</b>	<b>Light traffic</b>	<b>Full cure</b>
	+5 °C	~18 hours	~36 hours	~3 days
	+10 °C	~15 hours	~18 hours	~24 hours
	+20 °C	~6 hours	~11 hours	~14 hours
	+30 °C	~3 hours	~9 hours	~12 hours
Note: Times apply when the last layer of the system has been applied. Times are 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

#### MIXING EQUIPMENT

- Electric double paddle mixer (>700 W, 300 to 400 rpm)

#### APPLICATION EQUIPMENT

- Squeegee
- Fleece roller

### 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

#### 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.

### APPLICATION

#### IMPORTANT

##### **Protect from moisture**

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

#### IMPORTANT

##### **No application on rising moisture**

Do not apply on substrates with rising moisture.

#### IMPORTANT

##### **Foaming due to exothermic reaction**

After the end of the Product's pot life the exothermic reaction of the Product leads to foaming.

1. At the end of the Product's pot life, fill the container completely with quartz sand to stop the exothermic reaction.

#### IMPORTANT

##### **Ensuring consistent colour matching**

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

#### 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.

#### ROLLER COATING

1. Pour the Product onto the surface.
2. Apply the Product in two directions at right angles with a short-pile roller, brush, or squeegee. Note Maintain a "wet edge" during application to achieve a seamless finish.

## 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 medium pile roller. Note Maintain a "wet edge" during application for a seamless finish.

## CLEANING OF TOOLS

Clean all tools and application equipment with Sika® Thinner C immediately after use. Hardened material can only be removed mechanically.

## MAINTENANCE

To maintain the appearance of the floor after application:

1. Immediately remove all spillages.
2. **IMPORTANT** Use detergents and maintenance layer products in strict accordance with the Manufacturer's instructions. Regularly clean the floor using suitable detergents and maintenance layers using equipment such as rotary brushes, mechanical scrubbers, scrubber-dryers, high-pressure washers and wash and vacuum machines.

For further information refer to: Method statement Cleaning Regime Sikafloor® Floor Coverings

## 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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